

February 14, 2019

Mr. Riley Neumann
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212-3128

**Re: *Quarterly Groundwater Sampling Report
(January 2019 Results)***
BRRTS #: 02-41-576336 & 02-41-579429
FID #: 241828620
Sunrise Shopping Center
2410-2424 10th Avenue & 1009 Marquette Avenue
South Milwaukee, Wisconsin 53172

Mr. Neumann:

Please find enclosed the *Quarterly Groundwater Sampling Report* for the Sunrise Shopping Center facility located at the above-referenced address. As discussed in the October 18, 2018, *Design Report Addendum/Remedial Action Plan*, quarterly groundwater sampling will continue to be performed at three (3) monitoring wells on-site to monitor any changes in Polynuclear Aromatic Hydrocarbon groundwater contaminant concentrations and determine the need for any future remedial actions, as well as to document Tetrachloroethene groundwater concentrations in monitoring well MW-5 during and following the chemical injections.

A brief discussion of the quarterly sampling protocol and results of the January 2019 groundwater sampling are included in this quarterly report. As required, this quarterly report and all supporting documentation have also been submitted electronically to WDNR.

If you have any questions or require additional information in regards to this submission, please contact me at 847-573-8900 extension 580. Thank you for your time.

Sincerely,
DAI Environmental, Inc.



Christopher Cailles, P.E.
Project Engineer

Enclosure

cc: Steven Dukatt – Carol Investment Corporation (w/enclosure)

**QUARTERLY GROUNDWATER SAMPLING REPORT
(JANUARY 2019 RESULTS)
SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE & 1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN 53172
WDNR BRRTS ACTIVITY #02-41-576336 & 02-41-579429
WDNR FID #241828620**

February 13, 2019

DAI Project Number: 6255

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1.0 INTRODUCTION

Soil and groundwater Remedial Actions are being performed at the Sunrise Shopping Center facility, addressed as 2410-2424 10th Avenue and 1009 Marquette Avenue in South Milwaukee, Wisconsin (Site). Figure B.1.b.1 in Attachment B provides an aerial view of the Site and surrounding property. The Remedial Actions to address Volatile Organic Compound (VOC) contamination are being performed under BRRTS number 02-41-576336 and the Remedial Actions to address Polynuclear Aromatic Hydrocarbon (PAH) contamination are being performed under BRRTS number 02-41-579429. As part of the Remedial Actions quarterly groundwater sampling has been conducted since January 2018. A brief discussion of the quarterly sampling protocol and results are provided below.

2.0 QUARTERLY GROUNDWATER SAMPLING PROGRAM

Quarterly groundwater sampling was first performed on January 5, 2018. The first quarterly sampling event included a complete round of sampling from each of the six (6) monitoring wells (MW-1 to MW-5 and MW-201) installed at the Site. Figure B.3.d provides the locations of the monitoring wells. As proposed in the December 28, 2017, *Site Investigation Work Plan*, the groundwater samples from all monitoring wells were submitted for analysis of PAHs, and a sample from MW-5 was also collected for VOC analysis. Results of the January 2018 groundwater sampling were provided to the Wisconsin Department of Natural Resources (WDNR) in the *Site Investigation Report Amendment Addendum* dated February 28, 2018. Results of subsequent 2018 quarterly sampling events were provided in *Quarterly Groundwater Sampling Reports*.

2.1 Quarterly Sampling Protocol

Quarterly groundwater sampling is being conducted at monitoring wells MW-3 to MW-5. The purpose of the quarterly groundwater sampling is to monitor any changes in groundwater contaminant concentrations and determine the need for any future remedial actions. The groundwater sampling will document Tetrachloroethene (Perc) groundwater concentrations during and following the chemical injections as described in October 18, 2018, *Design Report Addendum/Remedial Action Plan* (RAP) approved by the WDNR in a letter dated December 19, 2018. Based upon the historical sampling results provided in the RAP, the quarterly groundwater sampling shall continue as follows:

- Static water level measurements are collected from all accessible monitoring wells using an electronic water level indicator capable of detecting water depth with an accuracy of ± 0.01 ft;
- Groundwater samples are collected from monitoring wells MW-3 and MW-4 for laboratory analysis of PAHs; and
- A groundwater sample is collected from monitoring well MW-5 for laboratory analysis of VOCs.

2.2 Groundwater Sampling Procedures and Chemical Analysis

Consistent with sampling protocol followed during Site Investigation activities, the three (3) monitoring wells were purged prior to sample collection, to the extent practicable, to remove

turbidity from the groundwater and allow the collection of a sediment-free sample that was representative of the surrounding groundwater conditions. Following purging, groundwater samples were collected from MW-3 to MW-5. Monitoring wells MW-4 and MW-5 were sampled using disposable PVC bailers; a groundwater sample was obtained from MW-3 using a peristaltic pump with dedicated PVC tubing. Groundwater samples were distributed directly into the appropriate sample containers for subsequent laboratory analyses as follows:

- MW-5: VOCs via USEPA Method SW8260; and
- MW-3 and MW-4: PAHs via USEPA Method SW8270 by HVI.

The sample submitted for analysis of VOCs was dispensed into 40-mL vials preserved with hydrochloric acid, and the samples submitted for analysis of PAHs were dispensed into unpreserved 100-mL amber glass containers. New disposable nitrile gloves were used to collect each sample to limit cross contamination. The samples were stored on ice immediately after collection and were maintained at a temperature of 4°C or lower via a cooler with ice. Samples were ultimately transferred to Pace Analytical Services, LLC (Pace Analytical) of Green Bay, Wisconsin, an independent analytical laboratory following the standard chain-of-custody procedures.

3.0 QUARTERLY GROUNDWATER SAMPLING RESULTS

3.1 Static Groundwater Elevations

In order to evaluate potential seasonal fluctuation in static water elevation and/or groundwater flow direction, a complete round of static groundwater elevations was collected as part of the first quarter 2019 groundwater sampling event. The static water level elevations were collected from all monitoring wells on January 25, 2019. Table A.6 in Attachment A provides a historical summary of groundwater elevation information.

Review of Table A.6 shows that the January 25, 2019, groundwater elevations are all lower than observed in October 2018 and generally comparable to the January 27, 2015, observed elevations. Monitoring wells MW-1 through MW-4 indicate the highest quarterly variability, while MW-5 and MW-201 less fluctuation between quarters. The highest static elevation differences are noted in monitoring wells MW-1 and MW-3, which are located in areas of the Site with known subsurface disturbance. Between January 2015 and January 2019, MW-1 through MW-3 show a difference in elevation of approximately 2.25-ft. The elevation range difference for MW-4 is 1.61-ft, while MW-5 and MW-201 indicate a range difference of less than 0.75-ft (excluding the April 2015 reading at MW-201).

While some variability in elevation between quarters is noted, the groundwater flow direction is generally consistent. The groundwater flow direction along the southern half of the Site remains northwesterly, and a northerly groundwater flow direction is indicated along the northern half of the Site. The potentiometric surface map generated from the January 2019 data is included as Figure B.3.c.8 (see Attachment B).

3.2 Groundwater Analytical Results

Groundwater samples for the first quarter 2019 (i.e., January-March 2019) were collected on January 25, 2019. Following the protocol described in Section 2.2, groundwater samples were collected from MW-5 for VOC analysis and MW-3 and MW-4 for PAHs. Additionally, a sample of the Ace Hardware sump water was collected (on February 4, 2019) for VOC analysis. A summary of all groundwater sampling data collected from monitoring wells MW-3 to MW-5

since the beginning of Site Investigations is provided Tables A.1.A-A.1.B (see Attachment A). The results of the sump water samples are summarized in Table A.5. The tables are compared to the Preventative Action Limits PAL (s) and Enforcement Standards listed in Table 1 of NR 140. Copies of the laboratory analytical reports are provided in this report as Attachment C.1.E.

Volatile Organic Compounds

Table A.1.A summarizes the groundwater results for VOC analyses at MW-5, installed to the rear of the 2410 tenant space (former Sunbrite Cleaners location). As observed in the table, Perc has been consistently noted in monitoring well MW-5, with concentrations exceeding the Enforcement Standard of 0.005-mg/L since February 2016. A Perc concentration of 0.0065-mg/L was observed in January 2019, a decrease from October 2018, but still above the Enforcement Standard. Additional chemical injection of RemOx® to reduce concentrations to below the Enforcement Standard was proposed in the October 2018 RAP and approved by WDNR in a letter dated December 19, 2018. Initial injection activities are planned to be performed in the latter part of the first quarter 2019.

Table A.5 summarizes sump water analysis for VOCs. The January 2019 sample indicated a Perc concentration (0.0064-mg/L) above the Enforcement Standard and consistent with the two (2) past samples collected in June 2017 (0.006-mg/L) and January 2018 (0.0082-mg/L). Due to the close proximity of the Ace Hardware building to the Perc groundwater plume (as defined by monitoring well MW-5), Perc impacted groundwater is being captured by the stormwater drainage system surrounding the Ace Hardware basement. Consistent with the WDNR RAP approval letter, the groundwater flowing to the sump will be treated so as to minimize any volatilization and vapor intrusion into the Ace Hardware building, as well as to ensure compliance with the 0.050-mg/L discharge limitation listed in Section 4.2.1.1 Table 1 of WPDES Permit WI-0046566-7.

Figure B.3.b.1 provides a historical summary of Perc groundwater concentrations and the estimated extent of Perc groundwater contamination. Historical sump water sample results are also provided in Figure B.3.b.1.

Polynuclear Aromatic Hydrocarbons

Table A.1.B summarizes the results of the PAH analyses for MW-3 and MW-4. Figures B.3.b.2a to B.3.b.2d provide a historical summary of groundwater results for Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, and Naphthalene, respectively.

A review of historical sampling results from MW-3 (which is installed in the southern portion of the property where contamination from historical petroleum and/or coal storage is identified) indicates the presence of PAH contamination in groundwater during each sampling event. Consistent with past sampling events, Benzo(a)pyrene, Benzo(b)fluoranthene, and Chrysene groundwater contamination were observed in MW-3. The January 2019 results indicate Benzo(b)fluoranthene and Chrysene at concentrations slightly above the Enforcement Standards; the observed Benzo(a)pyrene concentration is above the PAL, but below the Enforcement Standard. All three (3) contaminants continue to show PAH concentrations fluctuating. A graphical analysis of all concentrations over time indicates a slight trend of increasing concentration as a result of concentration “spikes” noted in samples collected during the spring.

Several PAH constituents continue to be observed at concentrations above the Limit of Detection (LOD) in MW-4 (installed to the rear of the 2414B tenant space in the approximate location of a former heating oil UST indicate). However, all concentrations were below the PALs with the exception of Chrysene, the only PAH constituent regularly observed in MW-4 above the PAL. A Chrysene concentration of 0.000033-mg/L was noted above the PAL of 0.00002-mg/L. Graphical analysis of all Chrysene concentrations over time indicates a decreasing concentration trend. The Benzo(b)fluoranthene concentration observed at a concentration marginally above the PAL in October 2018 decreased to below the PAL. Benzo(b)fluoranthene has only been observed above the PAL in two (2) of nine samples. The Naphthalene concentration has continued to decline each quarter, last observed slightly above the PAL in January 2018.

4.0 SUMMARY AND SCHEDULE

- Perc has been observed in monitoring well MW-5 at concentrations exceeding the Enforcement Standard since February 2016. The concentrations were increasing with time July 2018 when the pilot-scale chemical injection was performed. The Perc concentration measured in MW-5 in July 2018 indicated a reduction in concentration, demonstrating that the chemical injection activities helped reduce the Perc concentration in the area of MW-5. However, the Perc concentration observed in January 2019 remains above the Enforcement Standard. Therefore, further injection within this area will be performed. The additional injections are planned for the first quarter 2019.
- Benzo(b)fluoranthene and Chrysene were observed in MW-3 at concentrations exceeding the Enforcement Standards during the January 2019 quarterly sampling. Benzo(a)pyrene was observed at a concentration exceeding the PAL, but below the Enforcement Standard. The observed concentrations in MW-3 continue to fluctuate. A slightly increasing trend in concentration is observed as a result of two (2) concentration “spikes” observed in May 2017 and April 2018. There are no other indications of contaminant spread, and contaminant concentrations appear stable if the April 2018 spike is excluded from analysis. Therefore, no active Remedial Actions are planned for MW-3 at this time. Quarterly groundwater sampling will continue to assess whether an increasing concentration trend is occurring.
- The groundwater sampling results from MW-4 indicate that only Chrysene was observed at a concentration exceeding the PAL (but below the Enforcement Standard). Evaluation of Chrysene concentrations over time indicate a declining trend, and all PAH concentrations have decreased since performing the pilot-scale chemical injection in July 2018. No additional active remedial actions are proposed within the area of MW-4, although quarterly monitoring will continue.
- Quarterly groundwater sampling will continue until Site closure is requested. The next quarterly sampling event is scheduled for April 2019.

**APPENDIX A
TABLES**

**Table A.1.A. Groundwater Analytical Table for Volatile Organic Compounds (mg/L)
(Quarterly Groundwater Sampling Wells)**

Volatile Organic Compound	Sample Location (Sample Date)					PAL ¹	ES ²
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)	MW-5 (01/05/18)		
Benzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.0005*	<0.0005*	<0.0005*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.0024*	<0.0024*	<0.0024*	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	NL	NL
Carbon tetrachloride	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Chloroethane	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0025*	<0.0025*	<0.0025*	0.0006	0.006
Chloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	NL	NL
Dibromochloromethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0022*	<0.0022*	<0.0022*	<0.0022*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00016*	<0.00018*	<0.00018*	<0.00018*	<0.00018*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00043	<0.00043	<0.00043	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.015	0.075
Dichlorodifluoromethane	<0.0002	<0.00022	<0.00022	<0.00022	<0.00022	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.007	0.07
trans-1,2-Dichloroethene	<0.00026	<0.00026	<0.00026	<0.00026	<0.00026	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.00048	<0.00048	<0.00048	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00044	<0.00044	<0.00044	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.00073*	<0.00073*	<0.00073*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00023	<0.00023	<0.00023	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.00017	<0.00017	<0.00017	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NL	NL
Styrene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00025*	<0.00025*	<0.00025*	0.00002	0.0002
Tetrachloroethene	0.0026	0.0026	0.0083	0.0124	0.0181	0.0005	0.005

**Table A.1.A (Continued). Groundwater Analytical Table
for Volatile Organic Compounds (mg/L)
(Quarterly Groundwater Sampling Wells)**

Volatile Organic Compound	Sample Location (Sample Date)					PAL ¹	ES ²
	TW-2 (11/12/14)	MW-5 (01/27/15)	MW-5 (02/23/16)	MW-5 (05/30/17)	MW-5 (01/05/18)		
Toluene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.0005	<0.0005	<0.00057	0.04	0.2
1,1,2-Trichloroethane	<0.00016	<0.0002	<0.0002	<0.0002	<0.0002	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00033	<0.00033	<0.00033	0.0005	0.005
Trichlorofluoromethane	<0.00017	<0.00018	<0.00018	<0.00018	<0.00018	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
Vinyl chloride	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	3.96	260

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

* – Limit of detection reported greater than most stringent applicable standard; “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in NR 140

VOCs via USEPA Method SW8260

NOTE – MW-5 generally duplicated TW-2

**Table A.1.A (Continued). Groundwater Analytical Table
for Volatile Organic Compounds (mg/L)
(Quarterly Groundwater Sampling Wells)**

Volatile Organic Compound	Sample Location (Sample Date)				PAL ¹	ES ²
	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)	MW-5 (01/25/19)		
Benzene	<0.0005	<0.00025	<0.00025	<0.00025	0.0005	0.005
Bromobenzene	<0.00023	<0.00024	<0.00024	<0.00024	NL	NL
Bromochloromethane	<0.00034	<0.00036	<0.00036	<0.00036	NL	NL
Bromodichloromethane	<0.0005*	<0.00036*	<0.00036*	<0.00036*	0.00006	0.0006
Bromoform	<0.0005*	<0.004*	<0.004*	<0.004*	0.00044	0.0044
Bromomethane	<0.0024*	<0.00097	<0.00097	<0.00097	0.001	0.01
n-Butylbenzene	<0.0005	<0.00071	<0.00071	<0.00071	NL	NL
sec-Butylbenzene	<0.0022	<0.00085	<0.00085	<0.00085	NL	NL
tert-Butylbenzene	<0.00018	<0.0003	<0.0003	<0.0003	NL	NL
Carbon tetrachloride	<0.0005	<0.00017	<0.00017	<0.00017	0.0005	0.005
Chlorobenzene	<0.0005	<0.00071	<0.00071	<0.00071	NL	NL
Chloroethane	<0.00037	<0.0013	<0.0013	<0.0013	0.08	0.4
Chloroform	<0.0025*	<0.0013*	<0.0013*	<0.0013*	0.0006	0.006
Chloromethane	<0.0005	<0.0022	<0.0022	<0.0022	0.003	0.03
2-Chlorotoluene	<0.0005	<0.00093	<0.00093	<0.00093	NL	NL
4-Chlorotoluene	<0.00021	<0.00076	<0.00076	<0.0018	NL	NL
Dibromochloromethane	<0.0005	<0.0026	<0.0026	<0.0026	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0022*	<0.0018*	<0.0018*	<0.0018*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00018*	<0.00083*	<0.00083*	<0.00083*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00094	<0.00094	<0.00094	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.00071	<0.00071	<0.00071	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.00063	<0.00063	<0.00063	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.00094	<0.00094	<0.00094	0.015	0.075
Dichlorodifluoromethane	<0.00022	<0.0005	<0.0005	<0.0005	0.2	1
1,1-Dichloroethane	<0.00024	<0.00027	<0.00027	0.0016	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00028	<0.00028	<0.00028	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00024	<0.00024	<0.00024	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00027	<0.00027	<0.00027	0.007	0.07
trans-1,2-Dichloroethene	<0.00026	<0.0011	<0.0011	<0.0011	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00028	<0.00028	<0.00028	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.00083	<0.00083	<0.00083	NL	NL
2,2-Dichloropropane	<0.00048	<0.0023	<0.0023	<0.0023	NL	NL
1,1-Dichloropropene	<0.00044	<0.00054	<0.00054	<0.00054	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.008*	<0.008*	<0.008*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0019	<0.0019	<0.0019	NL	NL
Ethylbenzene	<0.0005	<0.00022	<0.00022	0.00037 (J)	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0012	<0.0012	<0.0012	NL	NL
Isopropyl benzene	<0.00014	<0.00039	<0.00039	<0.00039	NL	NL
p-Isopropyltoluene	<0.0005	<0.0008	<0.0008	<0.0008	NL	NL
Methylene chloride	<0.00023	<0.00058*	<0.00058*	<0.00058*	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.0012	<0.0012	<0.0012	0.012	0.06
Naphthalene	<0.0025	<0.0012	<0.0012	<0.0012	0.01	0.1
n-Propylbenzene	<0.0005	<0.00081	<0.00081	<0.00081	NL	NL
Styrene	<0.0005	<0.00047	<0.00047	<0.00047	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00027	<0.00027	<0.00027	0.007	0.07

**Table A.1.A (Continued). Groundwater Analytical Table
for Volatile Organic Compounds (mg/L)
(Quarterly Groundwater Sampling Wells)**

Volatile Organic Compound	Sample Location (Sample Date)				PAL ¹	ES ²
	MW-5 (04/07/18)	MW-5 (07/30/18)	MW-5 (10/11/18)	MW-5 (01/25/19)		
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00028*	<0.00028*	<0.00028*	0.00002	0.0002
Tetrachloroethene	0.0203	0.0086	0.021	0.0065	0.0005	0.005
Toluene	<0.0005	<0.00017	<0.00017	<0.00017	0.16	0.8
1,2,3-Trichlorobenzene	<0.0021	<0.00063	<0.00063	<0.00063	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.00095	<0.00095	<0.00095	0.014	0.07
1,1,1-Trichloroethane	0.000897	0.00088	0.00095 (J)	0.0003 (J)	0.04	0.2
1,1,2-Trichloroethane	<0.0002	<0.00055*	<0.00055*	<0.00055*	0.0005	0.005
Trichloroethene	<0.00033	<0.00026	0.00027 (J)	0.0027	0.0005	0.005
Trichlorofluoromethane	<0.00018	<0.00021	<0.00021	<0.00021	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.00059	<0.00059	<0.00059	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.00084	<0.00084	<0.00084	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.00087	<0.00087	<0.00087		
Vinyl chloride	<0.00018	<0.00017	<0.00017	<0.00017	0.4	2
Xylenes (total)	<0.0015	<0.00073	<0.00073	0.0039	3.96	260

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

* – Limit of detection reported greater than most stringent applicable standard; “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in NR 140

VOCs via USEPA Method SW8260

NOTE – MW-5 generally duplicated TW-2

**Table A.1.B. Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)				PAL ¹	ES ²
	TW-5 (11/13/14)	MW-3 (01/27/15)	MW-3 (05/30/17)	MW-3 (01/05/18)		
Acenaphthene	0.00076	0.0000043 (J)	0.000026 (J)	0.0000077 (J)	NL	NL
Acenaphthylene	0.00013	0.0000036 (J)	0.000016 (J)	<0.0000045	NL	NL
Anthracene	0.00056	<0.0000023	0.00013	0.000031 (J)	0.6	3
Benzo(a)anthracene	0.00069	<0.0000031	0.00073	0.0000069 (J)	NL	NL
Benzo(a)pyrene	0.0006	0.000011 (J)	0.001	<0.0000096	0.00002	0.0002
Benzo(b)fluoranthene	0.00077	0.00002 (J)	0.002	0.000037	0.00002	0.0002
Benzo(g,h,i)perylene	0.0004	0.000016 (J)	0.0011	0.00018 (J)	NL	NL
Benzo(k)fluoranthene	0.00029	0.00001 (J)	0.00068	0.000014 (J)	NL	NL
Chrysene	0.00084	0.000028 (J)	0.0015	0.000047 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	0.000091	<0.0000032	0.00022	<0.0000091	NL	NL
Fluoranthene	0.0024	0.000041 (J)	0.0031	0.00021	0.08	0.4
Fluorene	0.0011	0.0000035 (J)	0.000052	0.000022 (J)	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0003	0.0000081 (J)	0.00086	<0.000016	NL	NL
1-Methylnaphthalene	0.002	0.0000091 (J)	0.00018	0.00016	NL	NL
2-Methylnaphthalene	0.00017	0.0000084 (J)	0.00013	0.00016	NL	NL
Naphthalene	0.00016	<0.0000056	0.00012	0.00046	0.017	0.1
Phenanthrene	0.0021	0.000043 (J)	0.00071	0.000085	NL	NL
Pyrene	0.0025	0.000059	0.002	0.00011	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-3 installed to duplicate TW-5

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)				PAL ¹	ES ²
	MW-3 (04/07/18)	MW-3 (07/30/18)	MW-3 (10/11/18)	MW-3 (01/25/19)		
Acenaphthene	0.000029	0.000014 (J)	0.00001 (J)	0.0000068 (J)	NL	NL
Acenaphthylene	0.000053	0.000023	<0.0000045	<0.0000047	NL	NL
Anthracene	0.00015	0.000073	0.00002 (J)	0.000027 (J)	0.6	3
Benzo(a)anthracene	0.001	0.00043	0.000017 (J)	0.000053	NL	NL
Benzo(a)pyrene	<u>0.0019</u>	<u>0.00068</u>	<u>0.000024 (J)</u>	<u>0.00017</u>	0.00002	0.0002
Benzo(b)fluoranthene	<u>0.0039</u>	<u>0.0013</u>	<u>0.000074</u>	<u>0.00034</u>	0.00002	0.0002
Benzo(g,h,i)perylene	0.0025	0.00082	0.000037	0.00023	NL	NL
Benzo(k)fluoranthene	0.0014	0.00041	0.000026 (J)	0.00012	NL	NL
Chrysene	<u>0.003</u>	<u>0.00095</u>	<u>0.000079</u>	<u>0.00028</u>	0.00002	0.0002
Dibenzo(a,h)anthracene	0.00034	0.00015	<0.000009	0.000034 (J)	NL	NL
Fluoranthene	0.0052	0.0019	0.00026	0.00043	0.08	0.4
Fluorene	0.000048	0.00004	0.000031 (J)	0.000014 (J)	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0021	0.00089	0.000027 (J)	0.00016	NL	NL
1-Methylnaphthalene	0.000033	0.000033	0.000019 (J)	0.000013 (J)	NL	NL
2-Methylnaphthalene	0.000024	0.000031	0.000015 (J)	0.000012 (J)	NL	NL
Naphthalene	0.000051	0.000053 (J)	0.000032 (J)	0.000022 (J)	0.017	0.1
Phenanthrene	0.0013	0.00047	0.000093	0.00011	NL	NL
Pyrene	0.0037	0.0012	0.0002	0.00031	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-3 installed to duplicate TW-5

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)					PAL ¹	ES ²
	TW-6 (11/13/14)	MW-4 (01/27/15)	MW-4 (02/23/16)	MW-4 (05/30/17)	MW-4 (01/05/18)		
Acenaphthene	0.00049	0.0000039 (J)	0.00056	0.0386	0.0246	NL	NL
Acenaphthylene	0.00012	0.000084	0.000073	0.0166	0.0083	NL	NL
Anthracene	0.00006	0.00006	0.00011	0.0018 (J)	0.0019	0.6	3
Benzo(a)anthracene	0.000013 (J)	<0.0000032	0.0000082 (J)	0.00044 (J)	<0.00014	NL	NL
Benzo(a)pyrene	0.0000053 (J)	0.000017 (J)	0.000006 (J)	<0.00049	<0.0002	0.00002	0.0002
Benzo(b)fluoranthene	0.0000093 (J)	0.000043 (J)	0.000014 (J)	<0.00027	0.00022 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	0.0000071 (J)	0.000025 (J)	0.0000081 (J)	<0.00031	<0.00013	NL	NL
Benzo(k)fluoranthene	<0.000005	0.000021 (J)	<0.0000051	<0.00035	<0.00014	NL	NL
Chrysene	0.000021 (J)	0.000042 (J)	0.000017 (J)	0.0018 (J)	0.001 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.0000035	<0.0000033	<0.0000051	<0.00046	<0.00019	NL	NL
Fluoranthene	0.00004 (J)	0.000049	0.00003 (J)	0.0037	0.0046	0.08	0.4
Fluorene	0.00061	0.000031 (J)	0.00051	0.0759	0.0504	0.08	0.4
Indeno(1,2,3-cd)pyrene	0.0000044 (J)	0.000017 (J)	0.0000056 (J)	<0.00082	<0.00033	NL	NL
1-Methylnaphthalene	0.0087	0.000076	0.0041	0.357	0.183	NL	NL
2-Methylnaphthalene	0.0065	0.000066	0.000037 (J)	0.0747	0.0126	NL	NL
Naphthalene	0.0022	0.00027	0.00017	0.0243	0.0151	0.01	0.1
Phenanthrene	0.00062	0.000033 (J)	0.00029	0.165	0.102	NL	NL
Pyrene	0.00006	0.0001	0.000081	0.0165	0.0102	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-4 installed to duplicate TW-6

**Table A.1.B (Continued). Groundwater Analytical Table for Polynuclear Aromatics (mg/L)
(Quarterly Groundwater Sampling Wells)**

Polynuclear Aromatic	Sample Location (Sample Date)				PAL ¹	ES ²
	MW-4 (04/07/18)	MW-4 (07/30/18)	MW-4 (10/11/18)	MW-4 (01/25/19)		
Acenaphthene	0.0031	0.0021	0.004	0.0016	NL	NL
Acenaphthylene	0.00073	0.00064	0.00091	0.00024	NL	NL
Anthracene	0.00051	0.00024	0.001	0.000093	0.6	3
Benzo(a)anthracene	0.000012 (J)	<0.000035	0.00004 (J)	0.0000076 (J)	NL	NL
Benzo(a)pyrene	<0.0000095	<0.000048	<0.000029	<0.0000095	0.00002	0.0002
Benzo(b)fluoranthene	0.0000096 (J)	<0.000026	0.000022	0.000012 (J)	0.00002	0.0002
Benzo(g,h,i)perylene	<0.0000061	<0.000031	<0.000018	<0.0000061	NL	NL
Benzo(k)fluoranthene	<0.0000068	<0.000035	<0.000021	0.000016 (J)	NL	NL
Chrysene	0.000031 (J)	<0.00006	0.000084 (J)	0.000033 (J)	0.00002	0.0002
Dibenzo(a,h)anthracene	<0.000009	<0.000046	<0.000027	<0.000009	NL	NL
Fluoranthene	0.0001	0.000061 (J)	0.00019	0.000091	0.08	0.4
Fluorene	0.0053	0.0035	0.0067	0.0022	0.08	0.4
Indeno(1,2,3-cd)pyrene	<0.000016	<0.000081	<0.000048	<0.000016	NL	NL
1-Methylnaphthalene	0.0109	0.0395	0.0268	0.006	NL	NL
2-Methylnaphthalene	0.00026	0.00051	0.00021	0.000048	NL	NL
Naphthalene	0.0022	0.0015	0.00081	0.00078	0.01	0.1
Phenanthrene	0.0033	0.0031	0.0059	0.00077	NL	NL
Pyrene	0.00032	0.00017 (J)	0.0001	0.00021	0.05	0.25

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

PNAs via USEPA Method SW8270SIM

NOTE – MW-4 installed to duplicate TW-6

Table A.5. Sump Water Analytical Table for Volatile Organic Compounds (mg/L)

Volatile Organic Compound	Sample Location (Sample Date)			PAL ¹	ES ²
	ACE Sump (06/04/17)	ACE Sump (01/05/18)	ACE Sump (02/04/19)		
Benzene	<0.0005	<0.0005	<0.00025	0.0005	0.005
Bromobenzene	<0.00023	<0.00023	<0.00024	NL	NL
Bromochloromethane	<0.00034	<0.00034	<0.00036	NL	NL
Bromodichloromethane	<0.0005*	<0.0005*	<0.00036	0.00006	0.0006
Bromoform	<0.0005*	<0.0005*	<0.004*	0.00044	0.0044
Bromomethane	<0.0024*	<0.0024*	<0.00097	0.001	0.01
n-Butylbenzene	<0.0005	<0.0005	<0.00071	NL	NL
sec-Butylbenzene	<0.0022	<0.0022	<0.00085	NL	NL
tert-Butylbenzene	<0.00018	<0.00018	<0.0003	NL	NL
Carbon tetrachloride	<0.0005*	<0.0005*	<0.00017	0.0005	0.005
Chlorobenzene	<0.0005	<0.0005	<0.00071	NL	NL
Chloroethane	<0.00037	<0.00037	<0.0013	0.08	0.4
Chloroform	<0.0025*	<0.0025*	<0.0013*	0.0006	0.006
Chloromethane	0.00051 (J)	<0.0005	<0.0022	0.003	0.03
2-Chlorotoluene	<0.0005	<0.0005	<0.00093	NL	NL
4-Chlorotoluene	<0.00021	<0.00021	<0.00076	NL	NL
Dibromochloromethane	<0.0022*	<0.0005*	<0.0018	0.006	0.006
1,2-Dibromo-3-chloropropane	<0.0005*	<0.0022*	<0.00026*	0.00002	0.0002
1,2-Dibromoethane (EDB)	<0.00018*	<0.00018*	<0.00083*	0.000005	0.00005
Dibromomethane	<0.00043	<0.00043	<0.00094	NL	NL
1,2-Dichlorobenzene	<0.0005	<0.0005	<0.00071	0.06	0.6
1,3-Dichlorobenzene	<0.0005	<0.0005	<0.00063	0.12	0.6
1,4-Dichlorobenzene	<0.0005	<0.0005	<0.00094	0.015	0.075
Dichlorodifluoromethane	<0.00022	<0.00022	<0.0005	0.2	1
1,1-Dichloroethane	<0.00024	<0.00024	<0.00027	0.085	0.85
1,2-Dichloroethane	<0.00017	<0.00017	<0.00028	0.0005	0.005
1,1-Dichloroethene	<0.00041	<0.00041	<0.00024	0.0007	0.007
cis-1,2-Dichloroethene	<0.00026	<0.00026	<0.00027	0.007	0.07
trans-1,2-Dichloroethene	<0.00026	<0.00026	<0.0011	0.02	0.1
1,2-Dichloropropane	<0.00023	<0.00023	<0.00028	0.0005	0.005
1,3-Dichloropropane	<0.0005	<0.0005	<0.00083	NL	NL
2,2-Dichloropropane	<0.00048	<0.00048	<0.0023	NL	NL
1,1-Dichloropropene	<0.00044	<0.00044	<0.00054	NL	NL
1,3-Dichloropropene (c & t)	<0.00073*	<0.00073*	<0.008*	0.00004	0.0004
Diisopropyl ether	<0.0005	<0.0005	<0.0019	NL	NL
Ethylbenzene	<0.0005	<0.0005	<0.00022	0.14	0.7
Hexachloro-1,3-butadiene	<0.0021	<0.0021	<0.0012	NL	NL
Isopropyl benzene	<0.00014	<0.00014	<0.00039	NL	NL
p-Isopropyltoluene	<0.0005	<0.0005	<0.0008	NL	NL
Methylene chloride	<0.00023	<0.00023	<0.00058*	0.0005	0.005
Methyl tertiary-butyl ether	<0.00017	<0.00017	<0.0012	0.012	0.06
Naphthalene	<0.0025	<0.0025	<0.0012	0.01	0.1
n-Propylbenzene	<0.0005	<0.0005	<0.00081	NL	NL
Styrene	<0.0005	<0.0005	<0.00047	0.01	0.1
1,1,1,2-Tetrachloroethane	<0.00018	<0.00018	<0.00027	0.007	0.07
1,1,2,2-Tetrachloroethane	<0.00025*	<0.00025*	<0.00028*	0.00002	0.0002
Tetrachloroethene	0.006	0.0082	0.0064	0.0005	0.005
Toluene	<0.0005	<0.0005	<0.00017	0.16	0.8

**Table A.5 (Continued). Sump Water Analytical Table
for Volatile Organic Compounds (mg/L)**

Volatile Organic Compound	Sample Location (Sample Date)			PAL ¹	ES ²
	ACE Sump (06/04/17)	ACE Sump (01/05/18)	ACE Sump (02/04/19)		
1,2,3-Trichlorobenzene	<0.0021	<0.0021	<0.00063	NL	NL
1,2,4-Trichlorobenzene	<0.0022	<0.0022	<0.00095	0.014	0.07
1,1,1-Trichloroethane	<0.0005	<0.0005	<0.00024	0.04	0.2
1,1,2-Trichloroethane	<0.0002	<0.0002	<0.00055*	0.0005	0.005
Trichloroethene	<0.00033	<0.00033	<0.00026	0.0005	0.005
Trichlorofluoromethane	<0.00018	<0.00018	<0.00021	0.7	3.5
1,2,3-Trichloropropane	<0.0005	<0.0005	<0.00059	0.012	0.06
1,2,4-Trimethylbenzene	<0.0005	<0.0005	<0.00084	0.096	0.48
1,3,5-Trimethylbenzene	<0.0005	<0.0005	<0.00087		
Vinyl chloride	<0.00018	<0.00018	<0.00017	0.4	2
Xylenes (total)	<0.0015	<0.0015	<0.00073	3.96	260

¹ – Preventive Action Limits (PALs) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

² – Enforcement Standards (ES) taken from Wisconsin Administrative Code, Chapter NR 140, Table 1

Bold – Concentration exceeds the PAL

Underlined – Concentration exceeds the PAL and the ES

* – Limit of detection reported greater than most stringent applicable standard in an undiluted sample (i.e., lowest achievable limit); “non-detect” concentration not taken as exceedance per NR140.14(3)(a)

(J) – Concentration reported by the laboratory above the Limit of Detection, but below the Limit of Quantification

NL – Not Listed in Wisconsin Administrative Code

VOCs via USEPA Method SW8260

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-1	99.13	1/25/19	4.65	14.49	94.48
		10/11/18	1.66		97.47
		7/30/18	3.32		95.81
		4/08/18	2.24		96.89
		2/27/18	1.58		97.55
		5/30/17	2.17		96.96
		4/24/15	1.46		97.67
		3/30/15	1.98		97.15
		1/27/15	3.93		95.20
MW-2	100.75	1/25/19	8.42	14.41	92.33
		10/11/18	6.45		94.30
		7/30/18	7.45		93.30
		4/08/18	8.36		92.39
		2/27/18	8.54		92.21
		5/30/17	7.95		92.80
		4/24/15	7.21		93.54
		3/30/15	8.01		92.74
		1/27/15	8.60		92.15
MW-3	100.05	1/25/19	4.44	14.46	95.61
		10/11/18	2.35		97.70
		7/30/18	3.62		96.43
		4/08/18	2.53		97.52
		2/27/18	2.43		97.62
		5/30/17	2.45		97.60
		4/24/15	2.27		97.78
		3/30/15	2.73		97.32
		1/27/15	4.46		95.59
MW-4	100.57	1/25/19	6.88	14.57	93.69
		10/11/18	5.43		95.14
		7/30/18	6.91		93.66
		4/08/18	7.26		93.31
		2/27/18	7.23		93.34
		5/30/17	6.38		94.19
		4/24/15	5.94		94.63
		3/30/15	7.04		93.53
		1/27/15	6.53		94.04
MW-5	100.24	1/25/19	6.35	14.60	93.89
		10/11/18	5.85		94.39
		7/30/18	6.19		94.05
		4/08/18	6.27		93.97
		2/27/18	6.15		94.09
		5/30/17	5.96		94.28
		4/24/15	5.92		94.32
		3/30/15	6.26		93.98
		1/27/15	6.50		93.74

Table A.6. Water Level Elevations

Monitoring Well	Top of Casing Elevation*	Date	Measured Depth to Groundwater (ft)	Measured Depth to Well Bottom (ft)	Relative Groundwater Elevation (ft)
MW-201	100.10	1/25/19	6.88	14.57	93.22
		10/11/18	6.22		93.88
		7/30/18	6.69		93.41
		4/08/18	6.79		93.34
		2/27/18	6.46		93.64
		5/30/17	6.26		93.84
		4/24/15	5.91		94.19
		3/30/15	6.28		93.82
		1/27/15	Not Installed		Not Installed

* – Relative Elevation based upon generic 100-ft on-site datum and survey data collected on January 27, 2015, and March 30, 2015.

APPENDIX B
FIGURES



SUNRISE SHOPPING CENTER
 2410-2424 10TH AVENUE
 1009 MARQUETTE AVENUE
 SOUTH MILWAUKEE, WISCONSIN

FIGURE B.1.b.1
 DETAILED SITE MAP WITH AERIAL VIEW
 OF SITE AND SURROUNDING PROPERTY
 (2015 AERIAL TAKEN FROM GOOGLE EARTH)

MARQUETTE AVENUE

LEGEND

APPROXIMATE PROPERTY BOUNDARY



VEGETATION
(2410)
UNIT ADDRESS

FIBER OPTICS UTILITY LINE

GAS UTILITY LINE

SANITARY UTILITY LINE

WATER UTILITY LINE (12")

WATER UTILITY LINE (4")

OVERHEAD ELECTRIC UTILITY LINE

MONITORING WELL LOCATION

SOIL BORING WITH TEMPORARY WELL LOCATION

OBSERVED PAL EXCEEDANCE FOR PERC

OBSERVED PAL AND ES EXCEEDANCE FOR PERC

PERC CONC. mg/L

SAMPLE DATE

SITE INVESTIGATION DEFINED PERC ISOCONCENTRATION LINE (mg/L)

SITE INVESTIGATION ESTIMATED PERC ISOCONCENTRATION LINE (mg/L)

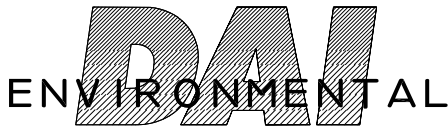
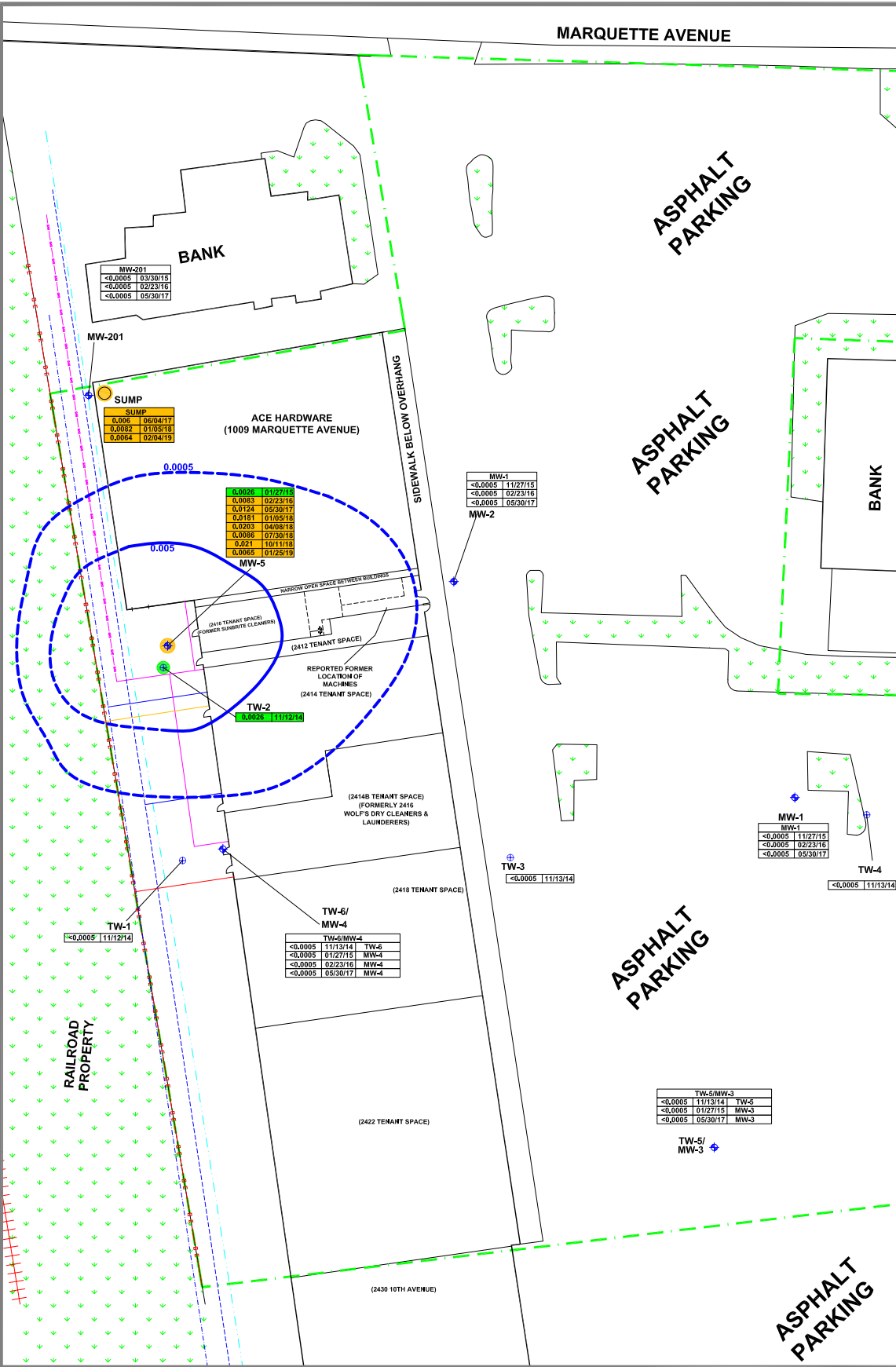
0'

65'

S C A L E

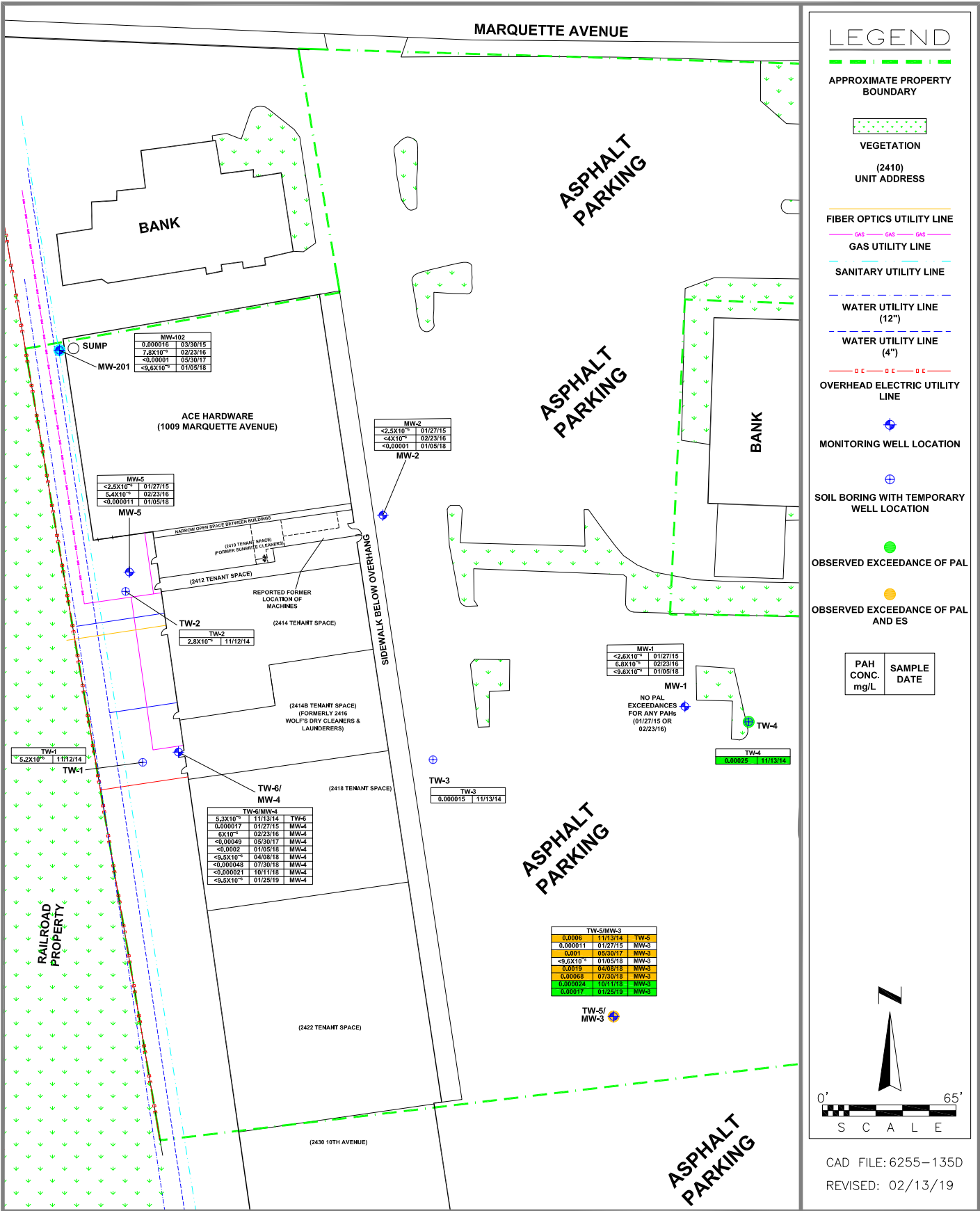
CAD FILE: 6255-133D

REVISED: 02/12/19



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

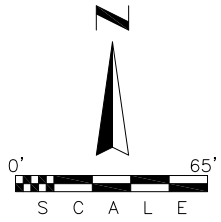
FIGURE B.3.b.1
GROUNDWATER
ISOCONCENTRATION
(PERC)



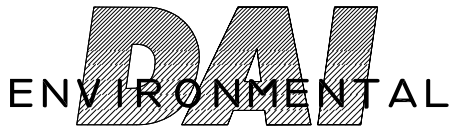
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
----------------	-------------

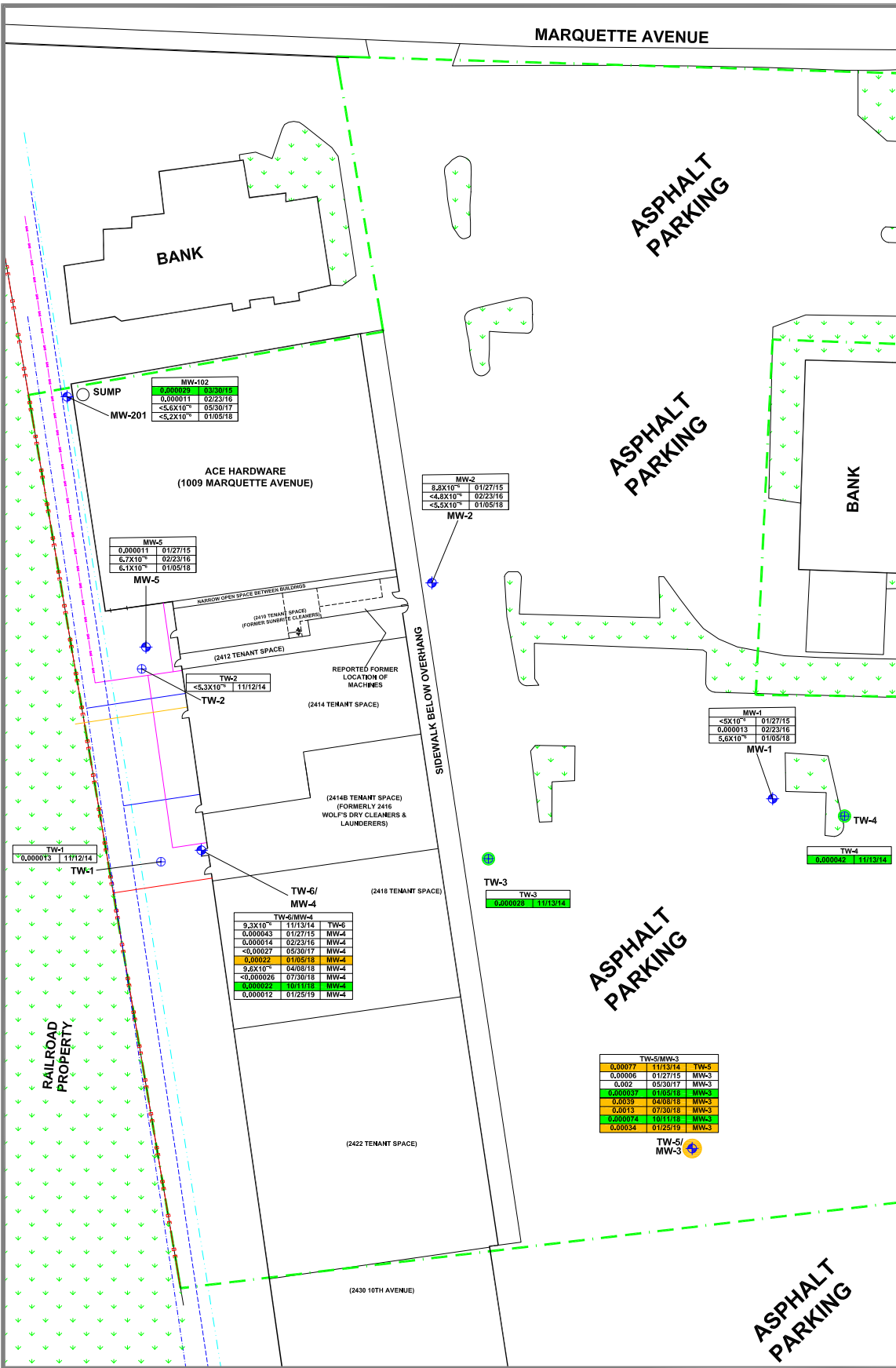


CAD FILE: 6255-135D
 REVISED: 02/13/19



SUNRISE SHOPPING CENTER
 2410-2424 10TH AVENUE
 1009 MARQUETTE AVENUE
 SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2a
GROUNDWATER
ISOCONCENTRATION
(BENZO(A)PYRENE)



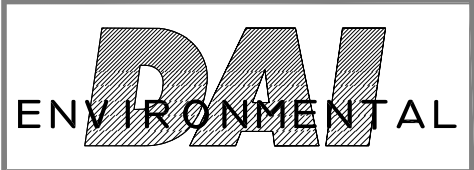
LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
0.000013	11/12/14

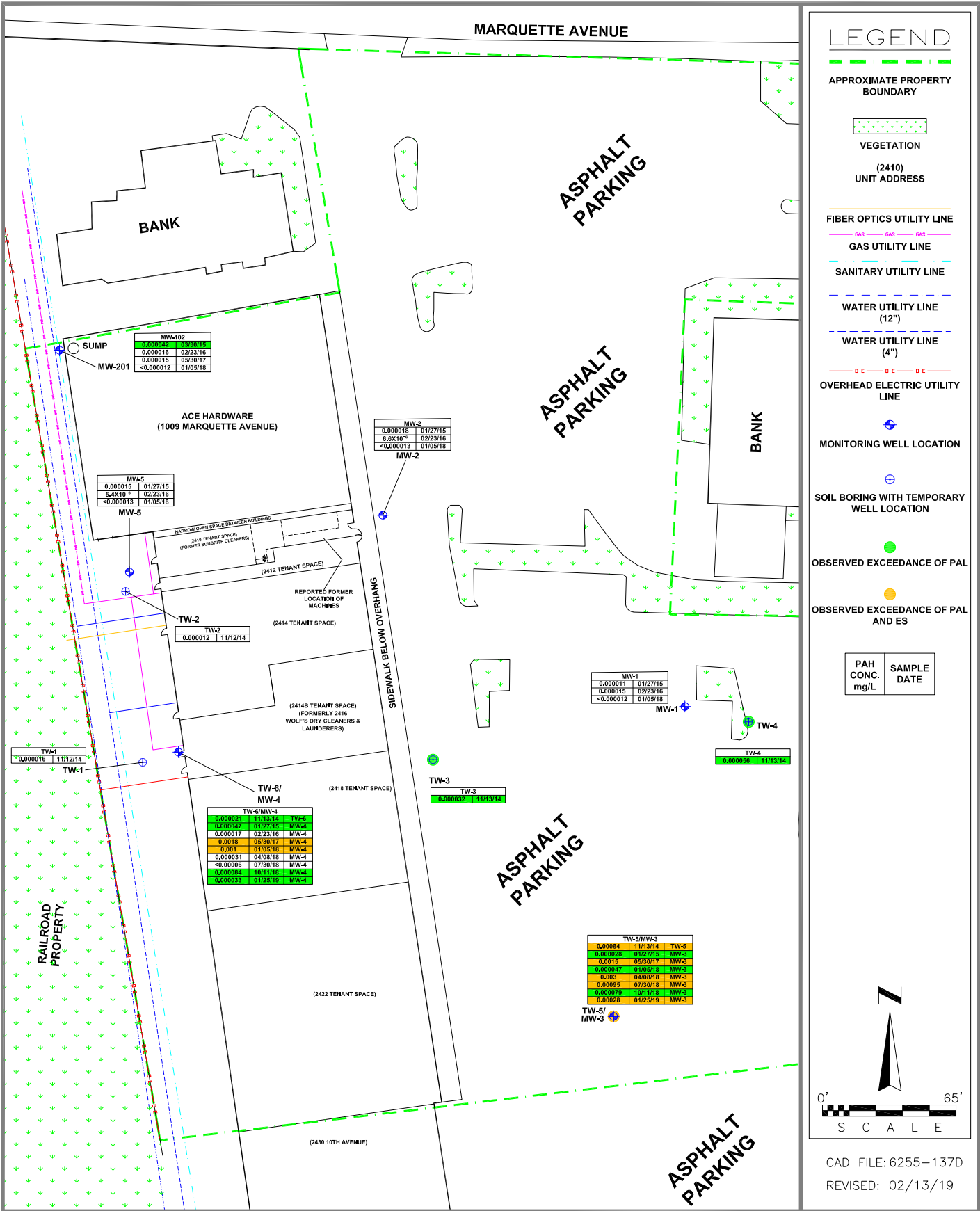
0' 65'
SCALE

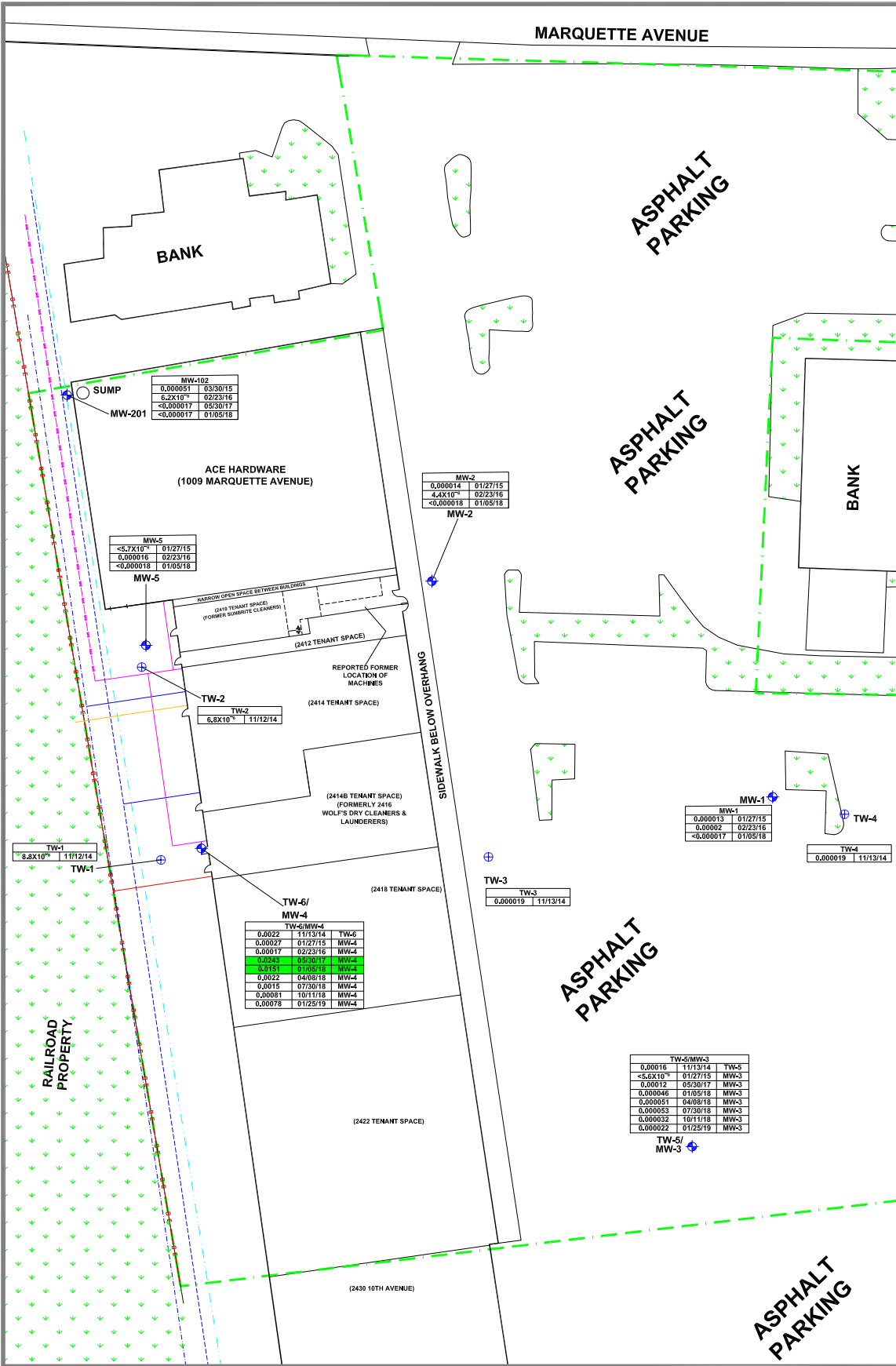
CAD FILE: 6255-136D
REVISED: 02/13/19



SUNRISE SHOPPING CENTER
2410-2424 10TH AVENUE
1009 MARQUETTE AVENUE
SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.b.2b
GROUNDWATER
ISOCONCENTRATION
(BENZO(B)FLUORANTHENE)





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- SOIL BORING WITH TEMPORARY WELL LOCATION
- OBSERVED EXCEEDANCE OF PAL
- OBSERVED EXCEEDANCE OF PAL AND ES

PAH CONC. mg/L	SAMPLE DATE
0.000051	03/30/15
6.2x10 ⁻⁴	02/23/16
<0.000017	05/30/17
<0.000017	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000014	01/27/15
4.4x10 ⁻⁴	02/23/16
<0.000018	01/05/18

PAH CONC. mg/L	SAMPLE DATE
<5.7x10 ⁻⁴	01/27/15
0.000018	02/23/16
<0.000018	01/05/18

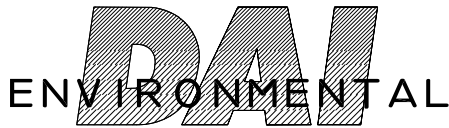
PAH CONC. mg/L	SAMPLE DATE
8.8x10 ⁻⁴	11/12/14

PAH CONC. mg/L	SAMPLE DATE
0.000013	01/27/15
0.000002	02/23/16
<0.000017	01/05/18

PAH CONC. mg/L	SAMPLE DATE
0.000019	11/13/14

PAH CONC. mg/L	SAMPLE DATE
0.0022	11/13/14
0.00027	01/27/15
0.00017	02/23/16
0.02481	05/30/17
0.0115	01/05/18
0.0022	04/08/18
0.0015	07/30/18
0.00051	10/11/18
0.00078	01/25/19

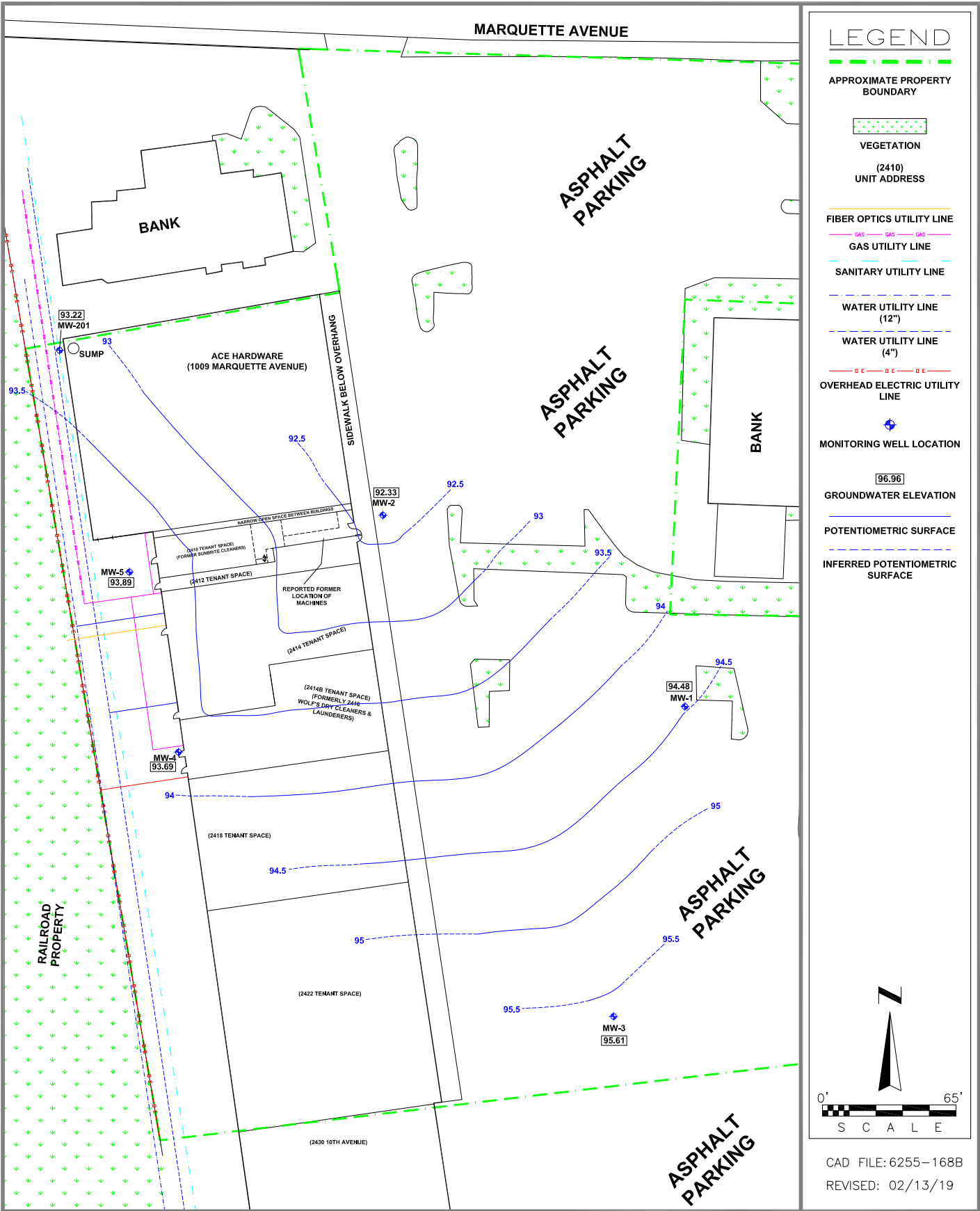
PAH CONC. mg/L	SAMPLE DATE
0.00016	11/13/14
<5.6x10 ⁻⁴	01/27/15
0.00012	05/30/17
0.000046	01/05/18
0.000051	04/08/18
0.000053	07/30/18
0.000032	10/11/18
0.000022	01/25/19



SUNRISE SHOPPING CENTER
 2410-2424 10TH AVENUE
 1009 MARQUETTE AVENUE
 SOUTH MILWAUKEE, WISCONSIN

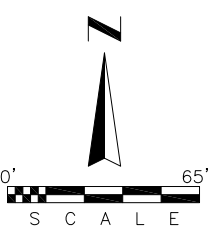
FIGURE B.3.b.2d
 GROUNDWATER
 ISOCONCENTRATION
 (NAPHTHALENE)

CAD FILE: 6255-138D
 REVISED: 02/13/19

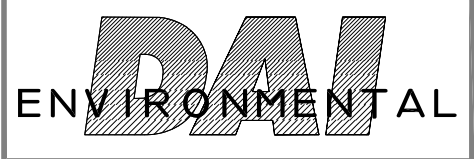


LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- VEGETATION
- (2410) UNIT ADDRESS
- FIBER OPTICS UTILITY LINE
- GAS UTILITY LINE
- SANITARY UTILITY LINE
- WATER UTILITY LINE (12")
- WATER UTILITY LINE (4")
- OVERHEAD ELECTRIC UTILITY LINE
- MONITORING WELL LOCATION
- GROUNDWATER ELEVATION
- POTENTIOMETRIC SURFACE
- INFERRED POTENTIOMETRIC SURFACE

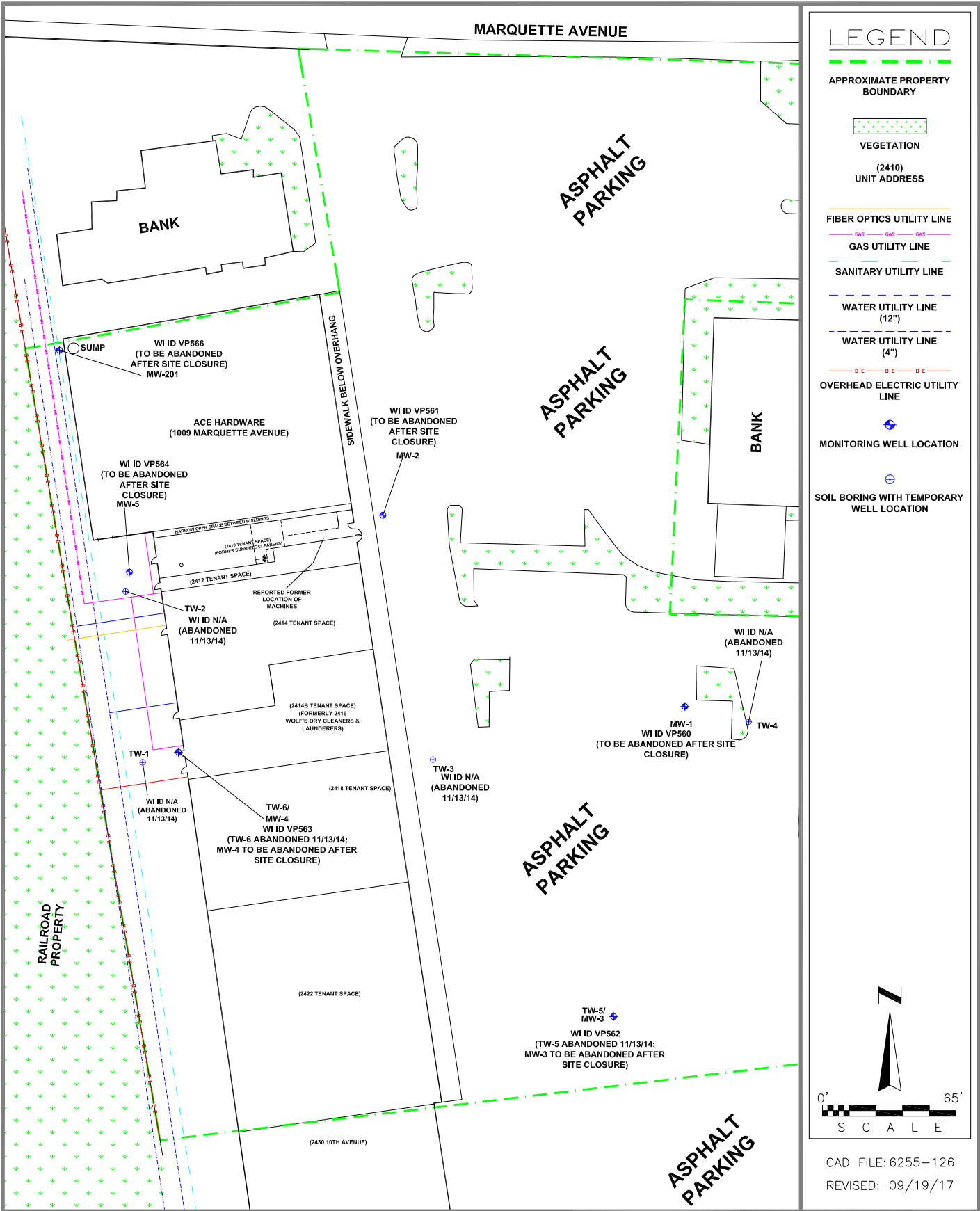


CAD FILE: 6255-168B
 REVISED: 02/13/19



SUNRISE SHOPPING CENTER
 2410-2424 10TH AVENUE
 1009 MARQUETTE AVENUE
 SOUTH MILWAUKEE, WISCONSIN

FIGURE B.3.c.8
GROUNDWATER FLOW DIRECTION
 (JANUARY 25, 2019)



APPENDIX C.1.E
LABORATORY ANALYTICAL REPORTS
(FIRST QUARTER 2019)

February 01, 2019

Chris Cailles
DAI Environmental
Polo Park Business Center
27834 Irma Lee Circle
Lake Forest, IL 60045

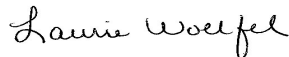
RE: Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40182545001	MW-3	Water	01/25/19 09:00	01/29/19 10:00
40182545002	MW-4	Water	01/25/19 11:00	01/29/19 10:00
40182545003	MW-5	Water	01/25/19 14:00	01/29/19 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40182545001	MW-3	EPA 8270 by HVI	TPO	20
40182545002	MW-4	EPA 8270 by HVI	TPO	20
40182545003	MW-5	EPA 8260	LAP	64

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Sample: MW-3 **Lab ID: 40182545001** Collected: 01/25/19 09:00 Received: 01/29/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.0068J	ug/L	0.029	0.0058	1	01/30/19 09:08	01/30/19 17:33	83-32-9	
Acenaphthylene	<0.0047	ug/L	0.024	0.0047	1	01/30/19 09:08	01/30/19 17:33	208-96-8	
Anthracene	0.027J	ug/L	0.050	0.010	1	01/30/19 09:08	01/30/19 17:33	120-12-7	
Benzo(a)anthracene	0.053	ug/L	0.036	0.0072	1	01/30/19 09:08	01/30/19 17:33	56-55-3	
Benzo(a)pyrene	0.17	ug/L	0.050	0.010	1	01/30/19 09:08	01/30/19 17:33	50-32-8	
Benzo(b)fluoranthene	0.34	ug/L	0.027	0.0055	1	01/30/19 09:08	01/30/19 17:33	205-99-2	
Benzo(g,h,i)perylene	0.23	ug/L	0.032	0.0065	1	01/30/19 09:08	01/30/19 17:33	191-24-2	
Benzo(k)fluoranthene	0.12	ug/L	0.036	0.0072	1	01/30/19 09:08	01/30/19 17:33	207-08-9	
Chrysene	0.28	ug/L	0.062	0.012	1	01/30/19 09:08	01/30/19 17:33	218-01-9	
Dibenz(a,h)anthracene	0.034J	ug/L	0.048	0.0095	1	01/30/19 09:08	01/30/19 17:33	53-70-3	
Fluoranthene	0.43	ug/L	0.051	0.010	1	01/30/19 09:08	01/30/19 17:33	206-44-0	
Fluorene	0.014J	ug/L	0.038	0.0076	1	01/30/19 09:08	01/30/19 17:33	86-73-7	
Indeno(1,2,3-cd)pyrene	0.16	ug/L	0.084	0.017	1	01/30/19 09:08	01/30/19 17:33	193-39-5	
1-Methylnaphthalene	0.013J	ug/L	0.028	0.0056	1	01/30/19 09:08	01/30/19 17:33	90-12-0	
2-Methylnaphthalene	0.012J	ug/L	0.023	0.0047	1	01/30/19 09:08	01/30/19 17:33	91-57-6	
Naphthalene	0.022J	ug/L	0.087	0.017	1	01/30/19 09:08	01/30/19 17:33	91-20-3	
Phenanthrene	0.11	ug/L	0.066	0.013	1	01/30/19 09:08	01/30/19 17:33	85-01-8	
Pyrene	0.31	ug/L	0.036	0.0073	1	01/30/19 09:08	01/30/19 17:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	29-80		1	01/30/19 09:08	01/30/19 17:33	321-60-8	
Terphenyl-d14 (S)	58	%	10-123		1	01/30/19 09:08	01/30/19 17:33	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Sample: MW-4 **Lab ID: 40182545002** Collected: 01/25/19 11:00 Received: 01/29/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	1.6	ug/L	0.027	0.0055	1	01/30/19 09:08	01/30/19 18:06	83-32-9	
Acenaphthylene	0.24	ug/L	0.022	0.0045	1	01/30/19 09:08	01/30/19 18:06	208-96-8	
Anthracene	0.093	ug/L	0.047	0.0094	1	01/30/19 09:08	01/30/19 18:06	120-12-7	
Benzo(a)anthracene	0.0076J	ug/L	0.034	0.0068	1	01/30/19 09:08	01/30/19 18:06	56-55-3	
Benzo(a)pyrene	<0.0095	ug/L	0.047	0.0095	1	01/30/19 09:08	01/30/19 18:06	50-32-8	
Benzo(b)fluoranthene	0.012J	ug/L	0.026	0.0052	1	01/30/19 09:08	01/30/19 18:06	205-99-2	B
Benzo(g,h,i)perylene	<0.0061	ug/L	0.031	0.0061	1	01/30/19 09:08	01/30/19 18:06	191-24-2	
Benzo(k)fluoranthene	0.016J	ug/L	0.034	0.0068	1	01/30/19 09:08	01/30/19 18:06	207-08-9	
Chrysene	0.033J	ug/L	0.059	0.012	1	01/30/19 09:08	01/30/19 18:06	218-01-9	
Dibenz(a,h)anthracene	<0.0090	ug/L	0.045	0.0090	1	01/30/19 09:08	01/30/19 18:06	53-70-3	
Fluoranthene	0.091	ug/L	0.048	0.0096	1	01/30/19 09:08	01/30/19 18:06	206-44-0	B
Fluorene	2.2	ug/L	0.036	0.0072	1	01/30/19 09:08	01/30/19 18:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.016	ug/L	0.079	0.016	1	01/30/19 09:08	01/30/19 18:06	193-39-5	
1-Methylnaphthalene	6.0	ug/L	0.027	0.0053	1	01/30/19 09:08	01/30/19 18:06	90-12-0	
2-Methylnaphthalene	0.048	ug/L	0.022	0.0044	1	01/30/19 09:08	01/30/19 18:06	91-57-6	
Naphthalene	0.78	ug/L	0.083	0.017	1	01/30/19 09:08	01/30/19 18:06	91-20-3	
Phenanthrene	0.77	ug/L	0.062	0.012	1	01/30/19 09:08	01/30/19 18:06	85-01-8	
Pyrene	0.21	ug/L	0.034	0.0069	1	01/30/19 09:08	01/30/19 18:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50	%	29-80		1	01/30/19 09:08	01/30/19 18:06	321-60-8	
Terphenyl-d14 (S)	38	%	10-123		1	01/30/19 09:08	01/30/19 18:06	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Sample: MW-5 **Lab ID: 40182545003** Collected: 01/25/19 14:00 Received: 01/29/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		01/30/19 13:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/30/19 13:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/30/19 13:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/30/19 13:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/30/19 13:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/30/19 13:57	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/30/19 13:57	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/30/19 13:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/30/19 13:57	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/30/19 13:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/19 13:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/30/19 13:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/30/19 13:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/30/19 13:57	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/30/19 13:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/30/19 13:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/30/19 13:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/30/19 13:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/30/19 13:57	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/30/19 13:57	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/19 13:57	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/30/19 13:57	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/30/19 13:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/30/19 13:57	75-71-8	
1,1-Dichloroethane	1.6	ug/L	1.0	0.27	1		01/30/19 13:57	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/30/19 13:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/30/19 13:57	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/30/19 13:57	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/30/19 13:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/30/19 13:57	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/30/19 13:57	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/30/19 13:57	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/30/19 13:57	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/30/19 13:57	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/30/19 13:57	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/30/19 13:57	108-20-3	
Ethylbenzene	0.37J	ug/L	1.0	0.22	1		01/30/19 13:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/30/19 13:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/30/19 13:57	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/30/19 13:57	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/30/19 13:57	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/30/19 13:57	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/30/19 13:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/30/19 13:57	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		01/30/19 13:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/30/19 13:57	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Sample: MW-5 **Lab ID: 40182545003** Collected: 01/25/19 14:00 Received: 01/29/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/30/19 13:57	79-34-5	
Tetrachloroethene	6.5	ug/L	1.1	0.33	1		01/30/19 13:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/30/19 13:57	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/30/19 13:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/30/19 13:57	120-82-1	
1,1,1-Trichloroethane	0.30J	ug/L	1.0	0.24	1		01/30/19 13:57	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/30/19 13:57	79-00-5	
Trichloroethene	2.7	ug/L	1.0	0.26	1		01/30/19 13:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/30/19 13:57	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/30/19 13:57	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/30/19 13:57	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/30/19 13:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/30/19 13:57	75-01-4	
m&p-Xylene	2.8	ug/L	2.0	0.47	1		01/30/19 13:57	179601-23-1	
o-Xylene	1.1	ug/L	1.0	0.26	1		01/30/19 13:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		01/30/19 13:57	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/30/19 13:57	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		01/30/19 13:57	2037-26-5	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

QC Batch: 312477 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40182545003

METHOD BLANK: 1821520 Matrix: Water
Associated Lab Samples: 40182545003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/30/19 08:28	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/30/19 08:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/30/19 08:28	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/30/19 08:28	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/30/19 08:28	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/30/19 08:28	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/30/19 08:28	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/30/19 08:28	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/30/19 08:28	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/30/19 08:28	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/30/19 08:28	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/30/19 08:28	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/30/19 08:28	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/30/19 08:28	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/30/19 08:28	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/30/19 08:28	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/30/19 08:28	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/30/19 08:28	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/30/19 08:28	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/30/19 08:28	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/30/19 08:28	
2-Chlorotoluene	ug/L	<0.93	5.0	01/30/19 08:28	
4-Chlorotoluene	ug/L	<0.76	2.5	01/30/19 08:28	
Benzene	ug/L	<0.25	1.0	01/30/19 08:28	
Bromobenzene	ug/L	<0.24	1.0	01/30/19 08:28	
Bromochloromethane	ug/L	<0.36	5.0	01/30/19 08:28	
Bromodichloromethane	ug/L	<0.36	1.2	01/30/19 08:28	
Bromoform	ug/L	<4.0	13.2	01/30/19 08:28	
Bromomethane	ug/L	<0.97	5.0	01/30/19 08:28	
Carbon tetrachloride	ug/L	<0.17	1.0	01/30/19 08:28	
Chlorobenzene	ug/L	<0.71	2.4	01/30/19 08:28	
Chloroethane	ug/L	<1.3	5.0	01/30/19 08:28	
Chloroform	ug/L	<1.3	5.0	01/30/19 08:28	
Chloromethane	ug/L	<2.2	7.3	01/30/19 08:28	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/30/19 08:28	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/30/19 08:28	
Dibromochloromethane	ug/L	<2.6	8.7	01/30/19 08:28	
Dibromomethane	ug/L	<0.94	3.1	01/30/19 08:28	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/30/19 08:28	
Diisopropyl ether	ug/L	<1.9	6.3	01/30/19 08:28	
Ethylbenzene	ug/L	<0.22	1.0	01/30/19 08:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

METHOD BLANK: 1821520 Matrix: Water
Associated Lab Samples: 40182545003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/30/19 08:28	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/30/19 08:28	
m&p-Xylene	ug/L	<0.47	2.0	01/30/19 08:28	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/30/19 08:28	
Methylene Chloride	ug/L	<0.58	5.0	01/30/19 08:28	
n-Butylbenzene	ug/L	<0.71	2.4	01/30/19 08:28	
n-Propylbenzene	ug/L	<0.81	5.0	01/30/19 08:28	
Naphthalene	ug/L	<1.2	5.0	01/30/19 08:28	
o-Xylene	ug/L	<0.26	1.0	01/30/19 08:28	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/30/19 08:28	
sec-Butylbenzene	ug/L	<0.85	5.0	01/30/19 08:28	
Styrene	ug/L	<0.47	1.6	01/30/19 08:28	
tert-Butylbenzene	ug/L	<0.30	1.0	01/30/19 08:28	
Tetrachloroethene	ug/L	<0.33	1.1	01/30/19 08:28	
Toluene	ug/L	<0.17	5.0	01/30/19 08:28	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/30/19 08:28	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/30/19 08:28	
Trichloroethene	ug/L	<0.26	1.0	01/30/19 08:28	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/30/19 08:28	
Vinyl chloride	ug/L	<0.17	1.0	01/30/19 08:28	
4-Bromofluorobenzene (S)	%	93	70-130	01/30/19 08:28	
Dibromofluoromethane (S)	%	92	70-130	01/30/19 08:28	
Toluene-d8 (S)	%	101	70-130	01/30/19 08:28	

LABORATORY CONTROL SAMPLE: 1821521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.7	87	70-130	
1,1,1-Trichloroethane	ug/L	50	38.9	78	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	46.4	93	67-130	
1,1,2-Trichloroethane	ug/L	50	44.8	90	70-130	
1,1-Dichloroethane	ug/L	50	40.9	82	70-134	
1,1-Dichloroethene	ug/L	50	37.9	76	75-132	
1,1-Dichloropropene	ug/L	50	40.7	81	70-130	
1,2,3-Trichlorobenzene	ug/L	50	45.2	90	70-130	
1,2,3-Trichloropropane	ug/L	50	45.1	90	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.3	89	68-130	
1,2,4-Trimethylbenzene	ug/L	50	46.5	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.1	92	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	44.1	88	70-130	
1,2-Dichlorobenzene	ug/L	50	46.3	93	70-130	
1,2-Dichloroethane	ug/L	50	43.5	87	73-134	
1,2-Dichloropropane	ug/L	50	46.0	92	79-128	
1,3,5-Trimethylbenzene	ug/L	50	47.0	94	70-130	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

LABORATORY CONTROL SAMPLE: 1821521

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	46.1	92	70-130	
1,3-Dichloropropane	ug/L	50	46.4	93	70-130	
1,4-Dichlorobenzene	ug/L	50	45.5	91	70-130	
2,2-Dichloropropane	ug/L	50	39.5	79	70-130	
2-Chlorotoluene	ug/L	50	45.8	92	70-130	
4-Chlorotoluene	ug/L	50	44.3	89	70-130	
Benzene	ug/L	50	43.0	86	69-137	
Bromobenzene	ug/L	50	44.1	88	70-130	
Bromochloromethane	ug/L	50	41.5	83	70-130	
Bromodichloromethane	ug/L	50	43.1	86	70-130	
Bromoform	ug/L	50	41.0	82	64-133	
Bromomethane	ug/L	50	52.2	104	29-123	
Carbon tetrachloride	ug/L	50	39.7	79	73-142	
Chlorobenzene	ug/L	50	43.9	88	70-130	
Chloroethane	ug/L	50	42.7	85	59-133	
Chloroform	ug/L	50	40.3	81	80-129	
Chloromethane	ug/L	50	44.1	88	27-125	
cis-1,2-Dichloroethene	ug/L	50	39.9	80	70-134	
cis-1,3-Dichloropropene	ug/L	50	45.7	91	70-130	
Dibromochloromethane	ug/L	50	44.3	89	70-130	
Dibromomethane	ug/L	50	44.2	88	70-130	
Dichlorodifluoromethane	ug/L	50	34.2	68	12-127	
Diisopropyl ether	ug/L	50	40.4	81	70-130	
Ethylbenzene	ug/L	50	45.7	91	86-127	
Hexachloro-1,3-butadiene	ug/L	50	45.7	91	70-130	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	95.8	96	70-131	
Methyl-tert-butyl ether	ug/L	50	40.3	81	65-136	
Methylene Chloride	ug/L	50	38.0	76	72-133	
n-Butylbenzene	ug/L	50	46.9	94	70-130	
n-Propylbenzene	ug/L	50	48.7	97	70-130	
Naphthalene	ug/L	50	45.8	92	70-130	
o-Xylene	ug/L	50	47.4	95	70-130	
p-Isopropyltoluene	ug/L	50	46.7	93	70-130	
sec-Butylbenzene	ug/L	50	48.3	97	70-130	
Styrene	ug/L	50	46.0	92	70-130	
tert-Butylbenzene	ug/L	50	47.8	96	70-130	
Tetrachloroethene	ug/L	50	43.5	87	70-130	
Toluene	ug/L	50	45.0	90	84-124	
trans-1,2-Dichloroethene	ug/L	50	39.4	79	70-133	
trans-1,3-Dichloropropene	ug/L	50	45.6	91	67-130	
Trichloroethene	ug/L	50	42.9	86	70-130	
Trichlorofluoromethane	ug/L	50	37.9	76	69-147	
Vinyl chloride	ug/L	50	45.2	90	48-134	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			90	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Parameter	Units	1821583		1821584		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40182544004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,1,1,2-Tetrachloroethane	ug/L	<0.27	50	50	52.1	53.2	104	106	70-130	2	20	
1,1,1-Trichloroethane	ug/L	<0.24	50	50	47.6	51.6	95	103	70-136	8	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50.6	48.9	101	98	67-133	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.7	51.0	103	102	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	47.4	51.8	95	104	70-139	9	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	46.4	48.5	93	97	72-137	5	20	
1,1-Dichloropropene	ug/L	<0.54	50	50	51.9	49.2	104	98	70-130	5	20	
1,2,3-Trichlorobenzene	ug/L	<0.63	50	50	52.7	51.2	105	102	70-130	3	20	
1,2,3-Trichloropropane	ug/L	<0.59	50	50	49.8	47.6	100	95	70-130	5	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	55.2	52.5	110	105	68-130	5	20	
1,2,4-Trimethylbenzene	ug/L	<0.84	50	50	55.3	52.8	111	106	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	51.7	46.6	103	93	60-130	10	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.6	52.1	105	104	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.9	49.3	102	99	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50.8	50.5	102	101	71-137	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	47.9	48.6	96	97	78-130	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.87	50	50	56.3	53.9	113	108	70-130	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.1	49.8	104	100	70-130	5	20	
1,3-Dichloropropane	ug/L	<0.83	50	50	51.4	51.0	103	102	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.1	48.1	100	96	70-130	4	20	
2,2-Dichloropropane	ug/L	<2.3	50	50	48.1	49.8	96	100	70-130	3	20	
2-Chlorotoluene	ug/L	<0.93	50	50	54.1	52.8	108	106	70-130	2	20	
4-Chlorotoluene	ug/L	<0.76	50	50	53.0	50.4	106	101	70-130	5	20	
Benzene	ug/L	<0.25	50	50	51.2	49.6	102	99	66-143	3	20	
Bromobenzene	ug/L	<0.24	50	50	51.6	49.7	103	99	70-130	4	20	
Bromochloromethane	ug/L	<0.36	50	50	44.9	48.5	90	97	70-130	8	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.6	49.8	97	100	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	48.0	47.7	96	95	64-134	1	20	
Bromomethane	ug/L	<0.97	50	50	62.1	65.9	124	132	29-136	6	25	
Carbon tetrachloride	ug/L	<0.17	50	50	50.1	48.1	100	96	73-142	4	20	
Chlorobenzene	ug/L	<0.71	50	50	51.7	51.8	103	104	70-130	0	20	
Chloroethane	ug/L	<1.3	50	50	52.7	56.9	105	114	58-138	8	20	
Chloroform	ug/L	<1.3	50	50	45.8	50.1	92	100	80-131	9	20	
Chloromethane	ug/L	<2.2	50	50	49.5	43.8	99	88	24-125	12	20	
cis-1,2-Dichloroethene	ug/L	0.50J	50	50	47.1	48.8	93	97	68-137	4	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.2	52.8	102	106	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	51.5	52.3	103	105	70-131	1	20	
Dibromomethane	ug/L	<0.94	50	50	47.9	50.5	96	101	70-130	5	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	41.9	41.4	84	83	10-127	1	20	
Diisopropyl ether	ug/L	<1.9	50	50	45.6	47.3	91	95	70-130	4	20	
Ethylbenzene	ug/L	<0.22	50	50	55.7	55.8	111	112	81-136	0	20	
Hexachloro-1,3-butadiene	ug/L	<1.2	50	50	57.8	57.0	116	114	70-130	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	57.3	57.8	115	116	70-132	1	20	
m&p-Xylene	ug/L	<0.47	100	100	114	112	114	112	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.8	51.8	96	104	58-142	8	23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1821583		1821584		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40182544004 Result	MS Spike Conc.	MSD Spike Conc.									
Methylene Chloride	ug/L	<0.58	50	50	45.3	46.9	91	94	69-137	4	20		
n-Butylbenzene	ug/L	<0.71	50	50	56.0	53.5	112	107	64-153	5	20		
n-Propylbenzene	ug/L	<0.81	50	50	57.5	55.2	115	110	70-139	4	20		
Naphthalene	ug/L	<1.2	50	50	53.9	51.6	108	103	62-152	4	20		
o-Xylene	ug/L	<0.26	50	50	57.8	57.6	116	115	70-132	0	20		
p-Isopropyltoluene	ug/L	<0.80	50	50	56.9	54.0	114	108	70-130	5	20		
sec-Butylbenzene	ug/L	<0.85	50	50	58.5	55.7	117	111	70-132	5	20		
Styrene	ug/L	<0.47	50	50	55.1	54.9	110	110	70-130	0	20		
tert-Butylbenzene	ug/L	<0.30	50	50	57.7	55.9	115	112	70-130	3	20		
Tetrachloroethene	ug/L	<0.33	50	50	53.9	53.7	108	107	70-132	0	20		
Toluene	ug/L	<0.17	50	50	53.0	52.7	106	105	81-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	48.7	54.6	97	109	70-136	11	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	52.1	52.9	104	106	67-130	2	20		
Trichloroethene	ug/L	0.43J	50	50	50.3	50.9	100	101	70-131	1	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	48.9	52.5	98	105	66-150	7	20		
Vinyl chloride	ug/L	<0.17	50	50	53.0	45.2	106	90	46-134	16	20		
4-Bromofluorobenzene (S)	%						100	102	70-130				
Dibromofluoromethane (S)	%						99	100	70-130				
Toluene-d8 (S)	%						100	100	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182545

QC Batch: 312502 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40182545001, 40182545002

METHOD BLANK: 1821587 Matrix: Water
Associated Lab Samples: 40182545001, 40182545002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	01/30/19 13:57	
2-Methylnaphthalene	ug/L	<0.0049	0.024	01/30/19 13:57	
Acenaphthene	ug/L	<0.0061	0.030	01/30/19 13:57	
Acenaphthylene	ug/L	<0.0050	0.025	01/30/19 13:57	
Anthracene	ug/L	<0.010	0.052	01/30/19 13:57	
Benzo(a)anthracene	ug/L	<0.0076	0.038	01/30/19 13:57	
Benzo(a)pyrene	ug/L	<0.011	0.053	01/30/19 13:57	
Benzo(b)fluoranthene	ug/L	0.0064J	0.029	01/30/19 13:57	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	01/30/19 13:57	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	01/30/19 13:57	
Chrysene	ug/L	<0.013	0.065	01/30/19 13:57	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	01/30/19 13:57	
Fluoranthene	ug/L	0.013J	0.053	01/30/19 13:57	
Fluorene	ug/L	<0.0080	0.040	01/30/19 13:57	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	01/30/19 13:57	
Naphthalene	ug/L	<0.018	0.092	01/30/19 13:57	
Phenanthrene	ug/L	<0.014	0.069	01/30/19 13:57	
Pyrene	ug/L	0.020J	0.038	01/30/19 13:57	
2-Fluorobiphenyl (S)	%	77	29-80	01/30/19 13:57	
Terphenyl-d14 (S)	%	85	10-123	01/30/19 13:57	

LABORATORY CONTROL SAMPLE & LCSD: 1821588

1821589

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.4	1.4	68	70	50-91	3	20	
2-Methylnaphthalene	ug/L	2	1.4	1.4	71	71	48-89	0	20	
Acenaphthene	ug/L	2	1.6	1.6	79	82	48-120	3	20	
Acenaphthylene	ug/L	2	1.5	1.6	77	78	44-84	1	20	
Anthracene	ug/L	2	1.4	1.5	71	76	57-120	6	27	
Benzo(a)anthracene	ug/L	2	1.4	1.3	69	64	33-108	7	23	
Benzo(a)pyrene	ug/L	2	1.9	1.8	93	91	55-108	2	20	
Benzo(b)fluoranthene	ug/L	2	1.7	1.7	87	84	47-106	4	20	
Benzo(g,h,i)perylene	ug/L	2	1.1	1.0	56	52	20-75	8	33	
Benzo(k)fluoranthene	ug/L	2	1.8	1.7	90	87	50-116	3	22	
Chrysene	ug/L	2	2.1	2.1	106	105	64-140	1	20	
Dibenz(a,h)anthracene	ug/L	2	1.1	1.0	57	51	14-70	12	39	
Fluoranthene	ug/L	2	1.7	1.7	86	84	61-112	3	24	
Fluorene	ug/L	2	1.9	1.9	93	95	53-120	2	21	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.6	1.5	81	75	43-105	8	26	
Naphthalene	ug/L	2	1.3	1.4	67	70	38-90	4	21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Parameter	Units	1821588		1821589		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec						
Phenanthrene	ug/L	2	1.6	1.6	81	82	47-105	1	20		
Pyrene	ug/L	2	1.6	1.6	82	79	62-119	4	24		
2-Fluorobiphenyl (S)	%				77	81	29-80			S0	
Terphenyl-d14 (S)	%				92	91	10-123				

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QUALIFIERS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 312550

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182545

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40182545001	MW-3	EPA 3510	312502	EPA 8270 by HVI	312550
40182545002	MW-4	EPA 3510	312502	EPA 8270 by HVI	312550
40182545003	MW-5	EPA 8260	312477		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street, Green Bay, WI 54302

Document name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: DAI

WO#: **40182545**

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Custody Seal on Samples Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 41 /Corr: _____

Temp Blank Present: Yes No Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 1/29/19
Initials: JM

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no mai / invoice</u> <u>JM 1/29/19</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no collect times</u> <u>JM 1/29/19</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: clw

Date: 1/29/19

February 08, 2019

Chris Cailles
DAI Environmental
Polo Park Business Center
27834 Irma Lee Circle
Lake Forest, IL 60045

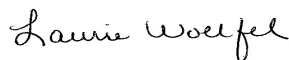
RE: Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182787

Dear Chris Cailles:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jenny Rovzar, DAI



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40182787001	SUMP WATER	Water	02/04/19 10:00	02/06/19 10:10

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SAMPLE ANALYTE COUNT

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40182787001	SUMP WATER	EPA 8260	HNW	64

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Sample: SUMP WATER **Lab ID: 40182787001** Collected: 02/04/19 10:00 Received: 02/06/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.25	ug/L	1.0	0.25	1		02/07/19 16:37	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		02/07/19 16:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		02/07/19 16:37	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		02/07/19 16:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		02/07/19 16:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		02/07/19 16:37	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		02/07/19 16:37	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		02/07/19 16:37	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		02/07/19 16:37	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		02/07/19 16:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		02/07/19 16:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		02/07/19 16:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		02/07/19 16:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		02/07/19 16:37	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		02/07/19 16:37	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		02/07/19 16:37	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		02/07/19 16:37	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		02/07/19 16:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		02/07/19 16:37	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		02/07/19 16:37	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		02/07/19 16:37	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		02/07/19 16:37	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		02/07/19 16:37	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		02/07/19 16:37	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		02/07/19 16:37	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		02/07/19 16:37	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		02/07/19 16:37	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		02/07/19 16:37	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		02/07/19 16:37	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		02/07/19 16:37	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		02/07/19 16:37	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		02/07/19 16:37	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		02/07/19 16:37	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		02/07/19 16:37	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		02/07/19 16:37	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		02/07/19 16:37	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		02/07/19 16:37	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		02/07/19 16:37	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		02/07/19 16:37	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		02/07/19 16:37	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		02/07/19 16:37	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		02/07/19 16:37	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		02/07/19 16:37	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		02/07/19 16:37	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		02/07/19 16:37	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		02/07/19 16:37	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Sample: SUMP WATER **Lab ID: 40182787001** Collected: 02/04/19 10:00 Received: 02/06/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		02/07/19 16:37	79-34-5	
Tetrachloroethene	6.4	ug/L	1.1	0.33	1		02/07/19 16:37	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		02/07/19 16:37	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		02/07/19 16:37	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		02/07/19 16:37	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		02/07/19 16:37	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		02/07/19 16:37	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		02/07/19 16:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		02/07/19 16:37	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		02/07/19 16:37	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		02/07/19 16:37	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		02/07/19 16:37	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		02/07/19 16:37	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		02/07/19 16:37	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		02/07/19 16:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/07/19 16:37	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		02/07/19 16:37	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		02/07/19 16:37	2037-26-5	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182787

QC Batch: 313035 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40182787001

METHOD BLANK: 1823605 Matrix: Water
Associated Lab Samples: 40182787001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	02/07/19 10:31	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	02/07/19 10:31	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	02/07/19 10:31	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	02/07/19 10:31	
1,1-Dichloroethane	ug/L	<0.27	1.0	02/07/19 10:31	
1,1-Dichloroethene	ug/L	<0.24	1.0	02/07/19 10:31	
1,1-Dichloropropene	ug/L	<0.54	1.8	02/07/19 10:31	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	02/07/19 10:31	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	02/07/19 10:31	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/07/19 10:31	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	02/07/19 10:31	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	02/07/19 10:31	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	02/07/19 10:31	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	02/07/19 10:31	
1,2-Dichloroethane	ug/L	<0.28	1.0	02/07/19 10:31	
1,2-Dichloropropane	ug/L	<0.28	1.0	02/07/19 10:31	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	02/07/19 10:31	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	02/07/19 10:31	
1,3-Dichloropropane	ug/L	<0.83	2.8	02/07/19 10:31	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	02/07/19 10:31	
2,2-Dichloropropane	ug/L	<2.3	7.6	02/07/19 10:31	
2-Chlorotoluene	ug/L	<0.93	5.0	02/07/19 10:31	
4-Chlorotoluene	ug/L	<0.76	2.5	02/07/19 10:31	
Benzene	ug/L	<0.25	1.0	02/07/19 10:31	
Bromobenzene	ug/L	<0.24	1.0	02/07/19 10:31	
Bromochloromethane	ug/L	<0.36	5.0	02/07/19 10:31	
Bromodichloromethane	ug/L	<0.36	1.2	02/07/19 10:31	
Bromoform	ug/L	<4.0	13.2	02/07/19 10:31	
Bromomethane	ug/L	<0.97	5.0	02/07/19 10:31	
Carbon tetrachloride	ug/L	<0.17	1.0	02/07/19 10:31	
Chlorobenzene	ug/L	<0.71	2.4	02/07/19 10:31	
Chloroethane	ug/L	<1.3	5.0	02/07/19 10:31	
Chloroform	ug/L	<1.3	5.0	02/07/19 10:31	
Chloromethane	ug/L	<2.2	7.3	02/07/19 10:31	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	02/07/19 10:31	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	02/07/19 10:31	
Dibromochloromethane	ug/L	<2.6	8.7	02/07/19 10:31	
Dibromomethane	ug/L	<0.94	3.1	02/07/19 10:31	
Dichlorodifluoromethane	ug/L	<0.50	5.0	02/07/19 10:31	
Diisopropyl ether	ug/L	<1.9	6.3	02/07/19 10:31	
Ethylbenzene	ug/L	<0.22	1.0	02/07/19 10:31	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

METHOD BLANK: 1823605

Matrix: Water

Associated Lab Samples: 40182787001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	02/07/19 10:31	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	02/07/19 10:31	
m&p-Xylene	ug/L	<0.47	2.0	02/07/19 10:31	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	02/07/19 10:31	
Methylene Chloride	ug/L	<0.58	5.0	02/07/19 10:31	
n-Butylbenzene	ug/L	<0.71	2.4	02/07/19 10:31	
n-Propylbenzene	ug/L	<0.81	5.0	02/07/19 10:31	
Naphthalene	ug/L	<1.2	5.0	02/07/19 10:31	
o-Xylene	ug/L	<0.26	1.0	02/07/19 10:31	
p-Isopropyltoluene	ug/L	<0.80	2.7	02/07/19 10:31	
sec-Butylbenzene	ug/L	<0.85	5.0	02/07/19 10:31	
Styrene	ug/L	<0.47	1.6	02/07/19 10:31	
tert-Butylbenzene	ug/L	<0.30	1.0	02/07/19 10:31	
Tetrachloroethene	ug/L	<0.33	1.1	02/07/19 10:31	
Toluene	ug/L	<0.17	5.0	02/07/19 10:31	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	02/07/19 10:31	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	02/07/19 10:31	
Trichloroethene	ug/L	<0.26	1.0	02/07/19 10:31	
Trichlorofluoromethane	ug/L	<0.21	1.0	02/07/19 10:31	
Vinyl chloride	ug/L	<0.17	1.0	02/07/19 10:31	
4-Bromofluorobenzene (S)	%	95	70-130	02/07/19 10:31	
Dibromofluoromethane (S)	%	102	70-130	02/07/19 10:31	
Toluene-d8 (S)	%	105	70-130	02/07/19 10:31	

LABORATORY CONTROL SAMPLE: 1823606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.2	96	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	67-130	
1,1,2-Trichloroethane	ug/L	50	54.9	110	70-130	
1,1-Dichloroethane	ug/L	50	57.5	115	70-134	
1,1-Dichloroethene	ug/L	50	45.5	91	75-132	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.0	80	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	47.3	95	70-130	
1,2-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,2-Dichloroethane	ug/L	50	53.3	107	73-134	
1,2-Dichloropropane	ug/L	50	59.5	119	79-128	
1,3-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	52.0	104	69-137	
Bromodichloromethane	ug/L	50	55.4	111	70-130	
Bromoform	ug/L	50	53.1	106	64-133	
Bromomethane	ug/L	50	44.2	88	29-123	

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

LABORATORY CONTROL SAMPLE: 1823606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	49.8	100	73-142	
Chlorobenzene	ug/L	50	53.1	106	70-130	
Chloroethane	ug/L	50	47.8	96	59-133	
Chloroform	ug/L	50	52.2	104	80-129	
Chloromethane	ug/L	50	35.3	71	27-125	
cis-1,2-Dichloroethene	ug/L	50	54.3	109	70-134	
cis-1,3-Dichloropropene	ug/L	50	49.2	98	70-130	
Dibromochloromethane	ug/L	50	48.4	97	70-130	
Dichlorodifluoromethane	ug/L	50	33.1	66	12-127	
Ethylbenzene	ug/L	50	56.7	113	86-127	
Isopropylbenzene (Cumene)	ug/L	50	53.4	107	70-130	
m&p-Xylene	ug/L	100	112	112	70-131	
Methyl-tert-butyl ether	ug/L	50	40.7	81	65-136	
Methylene Chloride	ug/L	50	54.7	109	72-133	
o-Xylene	ug/L	50	52.3	105	70-130	
Styrene	ug/L	50	53.3	107	70-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	56.2	112	84-124	
trans-1,2-Dichloroethene	ug/L	50	55.7	111	70-133	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	67-130	
Trichloroethene	ug/L	50	56.5	113	70-130	
Trichlorofluoromethane	ug/L	50	52.6	105	69-147	
Vinyl chloride	ug/L	50	41.4	83	48-134	
4-Bromofluorobenzene (S)	%			110	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			106	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1823721 1823722

Parameter	Units	40182843001		MSD		MSD		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.6	49.1	99	98	70-136	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	48.8	49.1	98	98	67-133	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.6	55.7	111	111	70-130	0	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	58.3	57.6	117	115	70-139	1	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	46.8	44.1	94	88	72-137	6	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	47.6	48.5	95	96	68-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.3	42.4	85	85	60-130	0	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.1	48.3	96	97	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.8	48.8	98	98	70-130	0	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	53.8	54.0	108	108	71-137	0	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	60.7	60.8	121	122	78-130	0	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.2	48.1	96	96	70-130	0	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.3	51.2	102	102	70-130	0	20		

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QUALITY CONTROL DATA

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1823721		1823722		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40182843001 Result	MS Spike Conc.	MSD Spike Conc.								
Benzene	ug/L	<0.25	50	50	52.3	52.2	105	104	66-143	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	56.7	55.6	113	111	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	53.2	53.4	106	107	64-134	0	20	
Bromomethane	ug/L	<0.97	50	50	30.5	29.8	61	60	29-136	2	25	
Carbon tetrachloride	ug/L	<0.17	50	50	50.8	50.7	102	101	73-142	0	20	
Chlorobenzene	ug/L	<0.71	50	50	53.8	54.2	108	108	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	45.4	43.9	91	88	58-138	3	20	
Chloroform	ug/L	<1.3	50	50	52.9	52.9	106	106	80-131	0	20	
Chloromethane	ug/L	<2.2	50	50	28.6	27.2	57	54	24-125	5	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	55.2	55.0	110	110	68-137	0	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.7	50.1	101	100	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.5	48.6	97	97	70-131	0	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	19.5	19.4	39	39	10-127	1	20	
Ethylbenzene	ug/L	<0.22	50	50	58.0	57.9	116	116	81-136	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	54.0	54.2	108	108	70-132	0	20	
m&p-Xylene	ug/L	<0.47	100	100	114	114	114	114	70-135	0	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.5	41.6	82	82	58-142	0	23	
Methylene Chloride	ug/L	<0.58	50	50	48.3	47.5	97	95	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	53.1	53.1	106	106	70-132	0	20	
Styrene	ug/L	<0.47	50	50	54.0	53.8	108	108	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	55.6	55.3	111	111	70-132	1	20	
Toluene	ug/L	<0.17	50	50	57.1	57.4	114	115	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.8	56.2	112	112	70-136	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	50.6	50.5	101	101	67-130	0	20	
Trichloroethene	ug/L	<0.26	50	50	57.5	56.7	115	113	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	50.6	49.6	101	99	66-150	2	20	
Vinyl chloride	ug/L	<0.17	50	50	37.5	36.6	75	73	46-134	2	20	
4-Bromofluorobenzene (S)	%						109	109	70-130			
Dibromofluoromethane (S)	%						98	98	70-130			
Toluene-d8 (S)	%						105	106	70-130			

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QUALIFIERS

Project: 6255 SUNRISE SHOPPING CENTER

Pace Project No.: 40182787

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6255 SUNRISE SHOPPING CENTER
Pace Project No.: 40182787

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40182787001	SUMP WATER	EPA 8260	313035		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: DAI

Project # 40182787

All containers needing preservation have been checked and noted below: Yes No N/A

Initial when completed:

Date/Time:

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN				
001																	3																				2.5 / 5 / 10
002																																					2.5 / 5 / 10
003																																					2.5 / 5 / 10
004																																					2.5 / 5 / 10
005																																					2.5 / 5 / 10
006																																					2.5 / 5 / 10
007																																					2.5 / 5 / 10
008																																					2.5 / 5 / 10
009																																					2.5 / 5 / 10
010																																					2.5 / 5 / 10
011																																					2.5 / 5 / 10
012																																					2.5 / 5 / 10
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019																																					2.5 / 5 / 10
020																																					2.5 / 5 / 10

Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	



1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

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Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: DAI

Project #:

WO#: **40182787**



40182787

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT Corr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 2-6-19
Initials: JKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>No pg#, Mail, Invoice</u> <u>2-6-19</u> <u>JKW</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC: <u>2-6-19 JKW</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>No time</u> <u>2-6-19 JKW</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: JKW

Date: 2/6/19